Math - Econ Lib

Mathematical Reviews

Edited by

R. P. Boas, Jr. E. Hille H. Whitney

J. V. Wehausen, *Executive Editor*

Vol. 15, No. 4 April, 1954 pp. 1151-1280

TWO PARTS—PART TWO

INDEX FOR VOLUME 14

TABLE OF CONTENTS

Author index 1151

Subject index 1244

Abbreviations of names of journals . . . 1276

Errata and addenda 1277

Transliteration of Russian 1280

BROWN UNIVERSITY PHOTOGRAPHIC LABORATORY

Through the services of the Brown University Photographic Laboratory, one can obtain photoprints or microfilm of the complete text of any article available in the Brown University Library, except books and material of which the reproduction is prohibited by copyright laws.

All responsibility for questions of copyright that may arise in this copying and in the use made of the copies is assumed by the applicant. Copyright material will not be reproduced beyond recognized "fair use" without the signed authorization of the copyright owner.

In ordering photoprints or microfilm, give as accurately as possible the author, title, journal, volume, year and pages. Articles which are reviewed in Mathematical Reviews under an MF number may be ordered by this number, which appears at the end of the title of the article.

Payment in advance is required. Checks and money orders should be made payable to Brown University, but should be mailed to the *Photographic Laboratory, Brown University, Providence 12, Rhode Island, U. S. A.*

Rates

MICROFILM (35 MM.) SERVICE

Service charge	$1.00 per article
Each page	.02
Mailing charge	.25 + postage

PHOTOPRINT SERVICE

Each page plus cost of negative as noted above under Microfilm Service	.20

MF articles:

Service charge	1.00
Each page	.20
Mailing charge	.25 + postage

ONE-SIDE EDITION OF MATHEMATICAL REVIEWS

An edition of MATHEMATICAL REVIEWS printed on only one side of the paper is available to persons interested in making card files of reviews or wishing to add remarks to reviews in the future. This special edition may be obtained for an additional payment of $1.00. A regular current subscription can be changed to a one-side subscription by paying the additional $1.00. This edition is folded but not stitched.

MATHEMATICAL REVIEWS

Published monthly, except August, by

THE AMERICAN MATHEMATICAL SOCIETY, Prince and Lemon Streets, Lancaster, Pennsylvania

Sponsored by

THE AMERICAN MATHEMATICAL SOCIETY
THE MATHEMATICAL ASSOCIATION OF AMERICA
THE INSTITUTE OF MATHEMATICAL STATISTICS
THE EDINBURGH MATHEMATICAL SOCIETY
SOCIÉTÉ MATHÉMATIQUE DE FRANCE
DANSK MATEMATISK FORENING
HET WISKUNDIG GENOOTSCHAP TE AMSTERDAM
THE LONDON MATHEMATICAL SOCIETY
POLSKIE TOWARZYSTWO MATEMATYCZNE
UNIÓN MATEMÁTICA ARGENTINA
INDIAN MATHEMATICAL SOCIETY
UNIONE MATEMATICA ITALIANA

Editorial Office

MATHEMATICAL REVIEWS, 80 Waterman St., Providence 6, R. I.

Subscriptions: Price $20 per year ($10 per year to members of sponsoring societies). Checks should be made payable to MATHEMATICAL REVIEWS. Subscriptions may be addressed to MATHEMATICAL REVIEWS, Lancaster, Pennsylvania, but should preferably be addressed to the American Mathematical Society, 80 Waterman St., Providence 6, R. I.

This publication was made possible in part by funds granted by the Carnegie Corporation of New York, the Rockefeller Foundation, and the American Philosophical Society held at Philadelphia for Promoting Useful Knowledge. Its preparation is also supported currently under a contract with the Office of Scientific Research, Headquarters, Air Research and Development Command, U. S. Air Force. These organizations are not, however, the authors, owners, publishers, or proprietors of this publication, and are not to be understood as approving by virtue of their grants any of the statements made or views expressed therein.

Entered as second-class matter February 3, 1940 at the post office at Lancaster, Pennsylvania, under the act of March 3, 1879. Accepted for mailing at special rate of postage provided for in paragraph (d-2), section 34.40, P. L. and R. of 1948, authorized November 9, 1940.

Mathematical Reviews

Vol. 15, No. 4 (Two Parts–Part Two) APRIL, 1954 Pages 1151–1280

AUTHOR INDEX

The Author Index lists papers under the first-named author of jointly written papers; cross-references to the first author are provided for the other authors. Papers or books for which no individual authors are named are not listed here, but will be found in the Subject Index. Russian authors are listed under the transliterated spelling of Russian in use by Mathematical Reviews (see p. 1280) unless they occur in the papers reviewed only under some other transliterated spelling; in the latter case a cross-reference is provided if it seems necessary. Surnames consisting of more than one part (e.g., von der Heide, de La Rivière, etc.) are listed under the first capital letter. The titles themselves are generally abbreviated; papers with similar titles are frequently combined under one title, the different papers being indicated by Roman numerals.

Abascal, E. Vidal. See Vidal Abascal.
Abbott, W. R.
Computing logical truth. 211
Abdelhay, J.
*Course of mathematical analysis. Vol. I. 959
Abdurahiman, P. V.
Compressible flow past body in a channel. 1140
Abelé, J.
Vitesse, grandeur qualitative, et mécanique relativiste. 504
Abelès, F.
Ondes dans les milieux stratifiés. 932
Abellan, J.
Henry Briggs. 609
Abellanas, P.
Orientation of algebraic varieties. 314
Abetti, G.
*The history of astronomy. 343
Abramowitz, M.
Tables of $\int_0^\phi \sin^{1/3} x\,dx$ and $(4/3)\sin^{-4/3}\phi \int_0^\phi \sin^{1/3} x\,dx$. 90
Ackeret, J.
Exakte Lösungen der Stokes-Navier-Gleichungen. 509
Ackermann, W.
Aufbau einer typenfreien Logik. I, II. 344, 834
Aczél, J.
Functional equations in applied mathematics. 286
Composed Poisson distributions. III. 770
Adam, A.
Klassenstatistik. 886
Adam, P. Puig. See Puig Adam.
Adamar, Z. See Hadamard, J.
Adams, M. C., and Sears, W. R.
Slender-wing theory. 599
Slender-body theory. 599
Adati, T. (Cf. Yano, K.)
Subprojective spaces. I, II, III, IV, V, VI. 86, 317, 318
Adel'son-Vel'skiĭ, G. M., and Kronrod, A. S.
Analyticity of a monogenic function. 546
Adem, J.
Iteration of Steenrod squares. 306
Aden, A. L.
Back-scattering of electromagnetic waves 933
Adkins, J. E., and Rivlin, R. S.
Large elastic deformations of isotropic materials. IX. 221
Ado, I. D.
Characters of finite groups. 447
Subgroups of the countable symmetric group. 447
Aeschlimann, F. Destouches-. See Destouches-Aeschlimann.
Afendik, L. G.
Theory of finite deformations. 1035
af Hällström, G. See Hällström.
Afriat, S. N.
Reduction of quadratic forms. 610
Agarwal, Ratan Prakash.
Generalised Hankel transform. 639
Note de P. Humbert. 1084
Agarwal, S. S.
Conjugate series of Fourier series. 745
Agekyan, T. A.
Orbits of triple stars. 590
Agmon, S.
Singularities of Taylor series. 458
Complex variable Tauberians. 869
Agnew, R. P.
Evaluation of sequences. 39
Arithmetic means of Tauberian series. 160
Trigonometric summability methods and arithmetic means. 368
Arithmetic means and the Tauberian constant .474541. 463
Approximation by use of kernels. 464
Inclusion relations among methods of summability. 551
Agodi, A.
Calcolo approssimato degli autovalori. 414
Agostinelli, C.
Configurazioni di equilibrio di una massa liquida. 94
Vibrazioni elettromagnetiche in una cavità. 115
Funzioni epicicloidali e loro applicazione. 373
Onde elettromagnetiche in un tubo. I, II. 433, 518
Moto di rotolamento. 1024
Figure di equilibrio di una massa liquida. 1131
Problema delle vibrazioni di una piastra. 1147
Agostini, A.
Lettera inedita di Leibniz. 344
Baricentri e loro proprietà in Leonardo da Vinci. 344
Agudo, F. R. Dias. See Dias Agudo.
Ahiezer, A. I., and Sitenko, A. G.
Passage of charged particle through electron plasma. 432
Ahiezer, N. I.
Power problem of moments in an indeterminate case. 145
Entire functions of finite degree. I, II, III. 459
Proposition of Kolmogorov and of M. G. Kreĭn. 544
Ahlfors, L. V.
Neumann-Poincaré integral equation. 182
Complex analysis. 857
Hyperbolic Riemann surfaces. 970
*Development of theory of conformal mapping and Riemann surfaces. 1050

Ahlfors, L. V., and Beurling, A.
Conformal invariants. 861
Ahlfors, L. V., and Royden, H. L.
Classification of open Riemann surfaces. 864
Aigner, A.
$x^3+y^3=z^3$ in quadratischen Körpern. I, II. 452, 621
Aissen, M.
Super-additive functions. 980
Aissen, M., Schoenberg, I. J., and Whitney, A. M.
Totally positive sequences. I. 732
Aitken, A. C.
Factorizing polynomials by iterated division. 209
Obituary: J. H. Wedderburn. 344
Trace-differentiation and the Ω-operator. 716
Aiyer, K. Rangaswami. See Rangaswami Aiyer.
Aiyar, T. V. Vedamurti. See Vedamurti Aiyar, T. V.
Aĭzenštat, N. D.
Approximate solution of finite-difference Poisson equation. 588
Aĭzerman, M. A.
Systems with nonlinear feedback. 648
Akaike, H. See Matusita, K.
Akivis, M. A.
Hypersurface of a conformal space. 318
Alaime, R.
Fermeture hexagonale. 785
Alba Andrade, F.
Particle in field of a rotating sphere in Birkhoff's theory. 418
Albert, A. A.
Simple alternative rings. 11
Simple power-associative algebras. 11
Commutative power-associative algebras. 614
Albert, G. E., and Nelson, L.
Statistical theory of counter data. 775
Albertoni, S., e Cugiani, M.
Cambiamento di variabili nella teoria delle distribuzioni. II. 629
Albrecht, J.
Taylor-Entwicklungen und finite Ausdrücke für Δu und $\Delta\Delta u$. 907
Albrecht, R.
Schmiegungsverfahren der konformen Abbildung. 366
Albrycht, J.
L'Hôpital's rule for vector-valued functions. 55
Albuquerque, J. Ribeiro de. See Ribeiro de Albuquerque, J.
Alef.
Diophantine equation. 20
Aleksandriya, G. N.
Problem of Haseman. 764
Aleksandrov, A. D.
*Triangles in a metric space. 198
Lenin's dialectics and mathematics. 234
Idealism in mathematics. 234
Einstein's paradox in quantum mechanics. 435
Meaning of wave function. 435
Isoperimetric problem. 577
Convex surfaces as surfaces of positive curvature. 577
Curvature of convex surfaces. 577
Triangles on convex surfaces. 577
Aleksandrov, P. S.
Components of maximal bicompact extensions. 303
Development of Soviet topology. 609
Alekseev, A. S.
Electronic model of a two-position regulator. 504
Alexiewicz, A.
Denjoy integrals of abstract functions. 27
Some theorems of Saks. 1070
Vector valued functions. 1093
Alexiewicz, A., and Orlicz, W.
Differentials in Banach spaces. 1093
Alexits, G.
Approximations attainable by series developments. 43
Alexits, G. (Continued)
Approximation d'une fonction périodique. 370
Annäherungsgrad der Orthogonalpolynomentwicklungen. 468
Sommes de fonctions orthogonales. 1081
Expansions in orthogonal polynomials. 1083
Alfred, F. M.-.
Modèles de courbes statistiques. 775
Alguneid, A. R.
Degeneration of space collineations. 681
Aljančić, S.
Gegenbauersche Polynome. 373
al-Kāšī, Ǧ. B. M. See Kāšī.
Alldredge, L. R. See Whiteley, T. B.
Allen, A. C.
Theorem by Hardy and Littlewood. 455
Theorem of Gabriel. 555
Positive harmonic functions. 979
Allen, A. C., and Kerr, E.
Converse of Fatou's theorem. 469
Allen, D. N. de G., and Dennis, S. C. R.
Relaxation methods for differential equations. II. 1021
Allen, D. N. de G., and Severn, R. T.
Relaxation methods for non-elliptic partial differential equations. II. 588
Allen, E. F.
An extended inversive geometry. 785
Allen, H. S.
Idempotent operators on a vector space. 59
Allen, S. G., Jr.
Minimax tests for composite hypotheses. 889
Almeida Costa, A.
Unterdirekte Modulnsummen. 942
Al'perin, I. G.
Stresses in an infinite strip. 818
van Alphen, W. J. See Plantema, F. J.
Alt, F. L.
*Boundary value problems for multiply connected domains. 1020
Altshiller Court, N. See Court, N. A.
Alumyaè, N. A.
Stressed state of catenoidal shell. 1036
Alvarez, M. García. See García Alvarez, M.
Amaldi, U. See Levi-Cività, T.
Amato, Vincenzo.
Equazioni delle curve G_s. 1010
Ambarcumyan, V. A., Mustel', Ė. R., Severnyĭ, A. B., and Sobolev, V. V.
*Theoretical astrophysics. 803
Ambarzumjan, W. A.
Fluktuationen in der Verteilung der Sterne. 912
Amble, O.
Numerical integration. 907
Amemiya, I.
Semi-ordered linear spaces. 59
Ament, W. S.
Reflection by a rough surface. 1149
Amerio, L.
Nozioni di "nodo," "nodo a stella" e "fuoco." 982
Amitsur, S. (Cf. Many, A.)
Problem of Kurosh-Levitzki-Jacobson. 11
General theory of radicals. I. 347
Identities of PI-rings. 613
Ammeter, H.
$(I_\sigma)^2$-Tests und wahrscheinlichkeitstheoretische Überprüfung von Sterbetafeln. 776
Testverfahren für geordnete Beobachtungsreihen. 776
Anastassiadis, J.
Fonctions semi-monotones et semi-convexes. 761
Ancochea, G.
Differentialgeometrie der singulären Kurvenelemente. 687
Singularités des courbes de l'espace projectif. 902
Formes différentielles quadratiques. 1014

Andreev, A. F.
Problem of the center and the focus. 1086
Anđelić, T. P.
Darboux'scher Vektor für den Raum von Riemann. 317
Equations linéaires par méthode de Banachiewicz. 501
*Tensor calculus. 586
Anderson, D. R., and Apostol, T. M.
Evaluation of Ramanujan's sum. 951
Anderson, R. D.
Monotone interior dimension-raising mappings. 71
Monotone interior mappings. 305
Continuous curves in the plane. 783
Anderson, T. W., and Darling, D. A.
Goodness of fit criteria. 298
Andersson, B.
Stress-tensor of viscous isotropic fluids. 509
Andersson, S.
Disturbed motion of two bodies. 211
Andrade, E. N. da C.
*Isaac Newton. 344
Andrade, F. Alba. See Alba Andrade, F.
Andree, R. V.
Cryptanalysis. 124
Andreev, B. A.
Calculations of potential fields and prospecting geophysics. III. 92
Andreotti, A.
Superficie algebriche. 201
Uniformizzazione per superficie algebriche. 403
Varietà di Picard di una superficie algebrica. 404
*Classification dans théorie des surfaces algébriques irrégulières. 790
Andress, W. R.
Expansion of a function. 959
Angelitch, T. See Anđelić, T.
Angelo, E. J., Jr.
Analog multiplication. 1130
Angot, A.
*Compléments de mathématiques à l'usage des ingénieurs de l'électrotechnique et des télécommunications. 145
Anis, A. A., and Lloyd, E. H.
Partial sums of independent normal variates. 1102
Ankeny, N. C.
Representations of primes by quadratic forms. 249
Insolubility of Diophantine equations. 354
Theorem of Suetuna on Dirichlet series. 622
Ankeny, N. C., Artin, E., and Chowla, S.
Class-number of real quadratic number fields. 251
Anscombe, F. J.
Sequential estimation. 487
Antosiewicz, H. A.
Forced periodic solutions of differential equations. 751
Aoki, K.
Maps of a $(2n\text{-}1)$-dimensional sphere. 673
Aoyama, H.
Practical systematic sampling. 487
Midzuno's inequality. 992
Apéry, R.
Les mathématiques sont-elles une théorie pure? 715
Apfelbeck, A.
Khintchine's principle of transfer. 359
Apollonius of Perga.
*On conic sections. 832
Apostle, H. G.
*Aristotle's philosophy of mathematics. 831
Apostol, T. M. See Anderson, D. R.
Ap Simon, H.
Critical lattices of spheres. 253
Apté, A.
Problème de l'onde solitaire. 1138
Apte, A. S. See Majumdar, R. C.
Aquaro, G.
Teorema di media per le equazioni dell'elasticità. 221
Teorema di Lebesgue. 257
Arai, T. See Ishiguro, E.
Araki, G. See Murai, T.
Arbault, J.
Convergence absolue d'une série trigonométrique. 1080
Archibald, R. C.
Canon Doctrinae Triangvlorvm of Rheticus. 833
Archimedes.
*The works of Archimedes including The Method. 524
Arens, R.
Functions on fully normal spaces. 191
Generalization of normed rings. 482
Coverings, pseudometrics, and linear-space-valued mappings. 1108
Areškin, G. Ya.
Passage to limit under the integral sign. 362
Operator lattices of locally compact groups. 724
Lattice theory of topological spaces. 782
Arf, C.
Multiply connected domains of an elastic plane body. 515
Problème de frontière libre en élasticité et problème d'écoulement. 924
Arfwedson, G.
Collective theory of risk. 296
Arima, K.
Maximum modulus of integral functions. 155
Zeros of integral functions. 259
Arin', E. G. See Arinš.
Arinš, E. G.
Monotone sequences of functions. 148
Nonlinear interpolation. 800
Armitage, P.
Bacterial populations subject to mutation. 393
Arnoff, E. L. See Ribner, H. S.
Arnous, E.
Dämpfungsphänomene für nichtstationäre Prozesse. III. 708
Arnous, E., und Bleuler, K.
Dämpfungsphänomene für nichtstationäre Prozesse. II. 708
Aronszajn, N.
Reproducing kernels. 479
Types of order satisfying $\alpha_0 + \alpha_1 = \alpha_1 + \alpha_0$. 854
Arrow, K. J., Barankin, E. W., and Blackwell, D.
*Admissible points of convex sets. 998
Arthur, R. S. See Munk, W. H.
Artin, E. See Ankeny, N. C.
Aruffo, G.
Approssimazione di una funzione continua. 164
Aržanyh, I. S.
Basic problems in field theory. 46
Integral representation of a vector field. 46
Extension of Krylov's method to polynomial matrices. 92
Dynamics of an elastic body. 220
Integration of equations of nonholonomic conservative systems. 694
Arzeliès, H.
Relations de la théorie magnéto-ionique. 116
Asano, K., und Ukegawa, T.
Arithmetik in Schiefringen. 839
Ascoli, G.
Communication de H. Schwerdtfeger. 610
Questioni asintotiche delle equazioni differenziali. 646
Interazioni non localizzabili. 1045
Ashwell, D. G.
Instability of elastic plates. 702
Aškinuze, V. G.
Splittability of J-algebras. 944
Astrahan, M. M., and Rochester, N.
*Logical organization of new IBM calculator. 1021

Atanasyan, L. S.
Manifolds imbedded in centro-affine space. 796
Rigged manifolds in multidimensional affine space. 796
Atkinson, F. V.
Second-order linear oscillators. 50
Nullstellen extremaler Polynome. 269
Theorem of K. Yosida. 381
Spectral problem for completely continuous operators. 478
Aubert, K. E. (Cf. Brun, V.)
Functions which represent prime numbers. 137
Continuity and discrete functions. 148
Généralisation de la théorie des idéaux. 529
*Lattice-theoretic aspects of abstract ideal theory. 718
Radical de McCoy. 1056
Auerbach, A.
*Elecom 100 general purpose computer. 1021
Aufenkamp, D. See Lichnerowicz, A.
Augé, J.
Partial differential equations of the third order. 52
Auluck, F. C.
Partitions of bipartite numbers. 726
Auluck, F. C., and Haselgrove, C. B.
Ingham's Tauberian theorem for partitions. 138
Aumann, G.
Alternativ-Zerlegungen in Booleschen Verbänden. 346
Spiegelungsinvarianz des Lebesgueschen Masses. 628
Integralerweiterungen mittels Normen. 963
Austin, W. J., and Newmark, N. M.
*Numerical method for plate buckling problems. 801
Avakumović, V. G.
Geschlossene Kurven auf der Kugel. 202
Eigenfunktionen der Schwingungsgleichung. 278
Randwertaufgabe zweiter Ordnung. 378
Problème aux limites des équations différentielles. 649
Avališvili, L. I.
Unsteady motion of a viscous fluid. 696
Aussem, M. V.
Geometry of the double integral. 320
Avadhani, T. V.
Summation over lattice points. 553
Aymerich, G.
Trasformazioni di Appell nel caso di forze lineari nelle velocità. 100
Oscillazioni forzate di circuiti elettrici. 874
Oscillazioni forzate periodiche di sistemi non lineari. 874
Ayoub, R.
Goldbach-Vinogradoff theorem. 847
Ayrault-Curie, G.
L'orientation et axiomes de congruence et de parallélisme. 1114
Azbelev, N. V.
Limits of applicability of Čaplygin's theorem. 1129
Azbelev, N., and Vinograd, R.
Successive approximations for finding characteristic values and vectors. 126, 412
Azleckiĭ, S. P.
Principal and composition series of a finite group. 532
Azpeitia, A. G.
Mean value theorem. 957
Laplace transform. 977
Auzmaya, G.
Algebraic theory of simple rings. 348

Bäbler, F.
Arbeit von R. Cantoni. 68
Babukov, A. G.
Boundary problem for telegraph equation. 1091
Baccarani, V., e Rubbiani, F.
Brachistocrona per un punto materiale veloce. 915
Baccou, R.
*Histoire de la science grecque de Thalès à Socrate. 523
Backes, F.
Théorème d'analyse vectorielle. 146
Configuration de Stephanos. 785
Méthode de la variation des constantes. 917
Bade, W. G.
Operators with spectrum in a strip. 1095
Bade, W. L.
Relativistic rocket theory. 1026
Bader, R. See Germain, P.
Badillo, Mª. de la Cinta. See Cinta.
Baer, R.
Existenz eines Einselements in Ringen. 239
*Linear algebra and projective geometry. 675
Factorization of n-soluble and n-nilpotent groups. 722
Group elements of prime power index. 1059
Bagchi, Hari das, and Chaki, Manindra Chandra.
Types of plane collineations. 895
Autopolar plane cubics. 1116
Bagchi, Hari das, and Chatterji, Phatikchand.
Hermite and Weber functions. 641
Bagchi, Hari das, und Mukherji, Bholanath.
Bateman functions. 1084
Gegenbauer functions. 1084
Bagchi, Hari das, and Mukherji, Biswarup.
Remarkable types of curves, surfaces and hyper-surfaces. 1116
Bagchi, S. N. See Hosemann, R.
Baggis, H. F. De. See DeBaggis.
Bahadur, R. R.
Property of t-statistic. 888
Bahadur, Raghu Raj, and Goodman, L. A.
Impartial decision rules and sufficient statistics. 997
Baiada, E.
Sommazione per serie di funzioni ortonormali. 42
Equazione $p = f(x, y, z, q)$ e l'unicità 378
Convergenza in lunghezza e derivazione per serie. 628
Equazione alle derivate parziali, con i dati iniziali. 1089
Bailey, N. T. J.
General stochastic epidemic. 1101
Bailey, W. N.
Two of Ramanujan's formulae. 138
Bajada, E. See Baiada.
Bajraktarević, M.
Théorème de la moyenne généralisée. 625
Certaines suites itérées. I, II, III. 760
Bornes du module d'une somme. 1068
Bakaev, Yu. N.
Differential equation of a pendulum. 648
Balagangadharan, K.
Quasi-Tauberian theorem on Fourier series. 636
Balaguer, F. Sunyer i. See Sunyer i Balaguer, F.
Balasubramanian, N.
Identities of operators and applications. 959
Baldacci, R. F.
Problema della lastra. 222
Baldassarri, M.
Punti generati da serie razionali. 313
Sistemi algebrici di spazi. 314
Esistenza di unisecanti. 790
Involuzioni ∞^s dello S_k. 790
Le $I^s_{n,2}$ ed una classe di varietà rappresentative. 899
Ball, B. J.
Continuous and equicontinuous collections of arcs. 572
Ball, W. E., Jr. See Borden, A.
Ballabh, Ram.
Two-dimensional superposable flows. 1029
Ballieu, R. (Cf. Gillis, P. P.)
Rangs-lignes à droite de deux matrices inverses. 611
Balmaña, R. Mallol. See Mallol Balmaña.
Baluev, A. N.
Abstract theory of Čaplygin's method. 185

Bambah, R. P., and Davenport, H.
Covering of space by spheres. 787
Bambah, R. P., and Roth, K. F.
Lattice coverings. 22
Ban, S.
Hyperbolische Paraboloidschale. 701
Bandić, I. M.
Satz von Euler. 160
Geometrische Deutung eines Satzes. 466
Banditch, I. M. See Bandić, I. M.
Bandyopadhyay, G.
New equation in affine field laws. 806
Mass of a rotating white dwarf. 912
Banerjee, D. P.
Moments of multiple correlation coefficient. 189
Inequalities in probability. 293
Banerjee, K. S.
Weighing designs and partially balanced incomplete blocks. 67
Bang, T.
Function representing prime numbers. 621
Points singuliers des fonctions indéfiniment dérivables. 626
Barankin, E. W. (Cf. Arrow, K. J.)
Linear equations, linear programming and tests of statistical hypotheses. 190
Barbašin, E. A.
Stability of solution of a nonlinear equation. 376
Barbašin, E. A., and Krasovskiĭ, N. N.
Stability of motion in the large. 646
Barbuti, U.
Stabilità delle soluzioni per $x''+B(t)x=0$. 49
Risonanza per $x''+B(t)x=0$. 170
Barde, R.
Origines arithmétiques du Yi-King. 523
Barenblatt, G. I.
Compressible fluid in a porous medium. 699
Barenblatt, G. I., and Levitan, B. M.
Boundary problems for turbulent heat transfer. 173
Barfield, W. D., and Broyles, A. A.
Coulomb functions. 500
Bargmann, V.
Bound states in central field of force. 875
Bar-Hillel, Y.
Bolzano's propositional logic. 121
Bari, N. K.
Primitive functions and trigonometric series. I, II. 40, 867
Biorthogonal systems and bases in Hilbert space. 289
Supplement to: "Uniqueness of representation by trigonometric series." 636
Bari, N. K., and Lyusternik, L. A.
D. E. Men'šov. 2
Work of Luzin on metric theory of functions. 122
Barker, W. A., and Chraplyvy, Z. V.
Conversion of Dirac equation to relativistic form. 825
Barmen, F. Klein-. See Klein-Barmen.
Barnard, G. A.
Frequency justification of sequential tests 65
Barner, M.
Projektive Differentialgeometrie der Kurven. 407
Differentialgeometrie der Kurvenpaare. 687
Konjugierte Netze im vierdimensionalen Raum. 793
Barnes, E. S.
Factorizable bilinear form. 142
Indefinite ternary quadratic forms. 358
Diophantine equation $x^2+y^2+c=xyz$. 725
Minima of product of n linear forms. 729
Minimum of a bilinear form. 955
Barnes, E. S., and Swinnerton-Dyer, H. P. F.
Minima of binary quadratic forms. I, II. 730, 956
Barrett, F. D., and Shepard, H. A.
Bibliography of cybernetics. 887
Barrett, W.
Remainders of numerical formulae. 412
Numerical integration formulae. 412
Barskaya, S.
Primitive solvable groups. 946
Barsotti, I.
Intersection theory for cycles of an algebraic variety. 496
Bartels, R. C. F., and Laporte, O.
*Conformal mapping and conical supersonic flows. 1141
Bartlett, J. H.
Iterative procedures and helium wave equation. 588
Bartlett, M. S.
χ^2 approximation in factor analysis. 66
Odd bits of information. 666
Recurrence and first passage times. 887
Bartsch, H.
Klasse von Hyperflächengeweben. 1119
Barton, D. E., and Dennis, K. E.
Positive definite and unimodal Gram-Charlier and Edgeworth curves. 389
Basch, A.
R. von Mises zum 70. Geburtstag. 1051
Basilewitch, V.
Sukzessive Approximation bei linearen Gleichungssystemen. 6
Basone, N.
Polynomials orthogonal to Pearsonian probability functions 977
Bass, J.
Corrélations spatio-temporelles dans un fluide turbulent. I, II. 105
Écoulement turbulent non homogène. 105
Corrélations d'espace et de temps en turbulence homogène. 328
Bassali, W. A. See Stevenson, A. F.
Bastin, E. W., and Kilmister, C. W.
Analysis of observations. 227
Basu, D.
Limit points of relative frequencies. 186
Problem of estimation. 666
Minimum variance estimator. 996
Symmetric estimators. 1103
Basu, N. M.
Note on partitions. 726
Basu, S. K.
Oscillation of Cesàro and Hölder means. 634
Batchelor, G. K.
*The theory of homogeneous turbulence. 597
Homogeneous turbulence and material lines and surfaces. 698
Bateman, E. H.
Solution of equations by iteration. 1126
Bates, D. R.
Formation of molecules by radiative association. 119
Bates, G. E., and Neyman, J.
Theory of accident proneness. I, II. 389, 390
Bauer, F. L.
Représentations spinorielles. 16
Tenseurs, dont les éléments sont des matrices de Dirac. 351
Baumann, K.
Neuere Entwicklung der Quantenelektrodynamik. 606
Streuformel von Bhabha. 827
Baur, A.
Brennpunkte der Kegelschnitte. 675
Bautin, N. N.
Model of a chronometric movement. 648
Bazarov, I. P.
Dynamical equation of Gibbs, kinetic equation of Boltzmann and irreversibility. 1048
Bazer, J., and Karp, S. N.
Propagation of electromagnetic waves past a shoreline. 933
Bazilevič, I. E., and Kordickiĭ, G. V.
Univalent conformal mappings. 632

Beard, M., and Pearcey, T.
Electronic computer. 323
Beatty, S., and Lane, N. D.
Riemann-Roch theorem and the unit theorem. 578
Beauregard, O. Costa de. See Costa de Beauregard, O.
Bechert, K.
Näherungsweise Integration partieller Differentialgleichungen. 210
Nicht-lineare Elektrodynamik. II. 436
Beck, F.
Trägheitsgesetz der Energie. 704
Beckenbach, E. F.
Characteristic properties of harmonic functions. 272
Mean values of an analytic function. 629
Beckenbach, E. F., and Graham, E. W.
*Subordination in complex variable theory. 632
Beckenbach, E. F., and Jackson, L. K.
Subfunctions of several variables. 1084
Becker, O.
*Untersuchungen über den Modalkalkül. 3
Becker, O., und Hofmann, J. E.
*Geschichte der Mathematik. 341
Beevers, C. A., and Lipson, H.
Fourier strips for structure factors. 323
Behlendorff, E.
Wärmespannungen in einer Kugel. 1146
Behmann, H.
Auflösungsproblem in der Klassenlogik. 122
Parallelreihentransformationen in Schröders "Algebra und Logik der Relative." 122
Behrbohm, H.
Schalldurchgang in einer Lavaldüse. 109
Behrend, F. A.
Metrisierbarkeitsbegriff von K. Wagner. 544
Behrens, E.-A.
Assoziativ auflösbare Ringe. 942
Beĭlin, E. A., and Džanelidze, G. Yu.
Survey of dynamical stability of elastic systems. 336
Béjar, J.
Coefficients of asymmetry and kurtosis. 389
Bejarano, G. G., and Rosenblatt, B. R.
Linear equations with computing devices. 906
Bekefi, G.
Diffraction of electromagnetic waves. 518
Belen'kiĭ, M. Ya.
Mixed problem of theory of elasticity. 111
Belgrano Brémard, J. C.
Problème de calcul fonctionnel posé par la nomographie. 1130
Bellman, R.
Scalar functions of matrices. 6
Iteration of power series in two variables. 37
Harmonic analysis of viscous fluid flow. 327
Dynamic programming. 392
Matrix theory. II. 731
Games involving bluffing. 778
Inequality of Weinberger. 957
Bellman, R., Glicksberg, I., and Gross, O.
Variational problems of dynamic programming. 885
Bellman, R., and Latter, R.
Integral equation $\lambda f(x) = \int_0^s K(x-y)f(y)dy$. 764
Bellman, R., and Shapiro, H. N.
Normal order of arithmetic functions. 356
Beloch, M. Piazzolla. See Piazzolla Beloch.
Belorizky, D.
Problème des trois corps. 802
Bencivenga, U.
Tipo di algebra di ordine n. I, II, III. 346
Sistemi metrici nello spazio. 550
Rappresentazione geometrica di alcune algebre reali. 551
Rappresentazione geometrica delle algebre doppie. II. 551
Benderskiĭ, A. M.
Maximum deviation from the mean in observations. 63
Bendukidze, A. D.
Strong summation of double numerical series. 1079
Bennett, B. M.
Estimation of means. 665
Benscoter, S. U., and MacNeal, R. H.
Electrical-circuit analogies for beams. 211
Bereczki, I.
Begriff der elementaren Funktion. 937
Bereis, R.
Fernpolstellung der ebenen Bewegung. 99
Böschungslinien auf Drehquadriken. 901
Berezanskiĭ, Yu. M.
Almost periodic functions in hypercomplex systems. 162
Generalized almost periodic functions and sequences. 746
Normed rings constructed with orthogonal polynomials. 884
Berezanskiĭ, Yu. M., and Kreĭn, S. G.
Hypercomplex systems with compact basis. 944
Berezina, L. Ya.
Middle envelope of a congruence of normals. 404
Surfaces with constant distance between corresponding points. 404
Stratified pairs of congruences. 405
Refraction of congruence by an optical system. 902
Congruences whose rays form a constant angle with the normals of the middle surfaces. 1120
Berg, L.
Abschätzung von Mathieu. 731
Berg, P. W., and Lax, P. D.
Fourth order operators. 653
Berg, W. D., et Nikodým, O. M.
Ensembles convexes dans les espaces linéaires. I, II. 383
Berger, E. R. (Cf. Funk, P.)
Einflussfeld der quadratischen Platte. 334
Dirac delta function and Fourier series. 975
Berger, J. M., Foldy, L. L., and Osborn, R. K.
Pseudoscalar coupling. 437
Berghuis, J. (Cf. Zonneveld, J. A.)
*Entire functions used in interpolation. I, II, III. 258, 739
Truncated power-series. 269
Bergman, G.
Theorem of Nagell. 451
Bergman, S.
Operatorenmethoden in der Gasdynamik. 217
Coefficient problem in linear partial differential equations. 382
Theorem of Green's type for functions of two complex variables. 632
*Solution of boundary value problems. 1020
Bergman, S., and Schiffer, M.
*Kernel functions in conformal mapping. 860
Potential-theoretic methods for functions of two complex variables. 865
*Kernel functions and elliptic differential equations in mathematical physics. 876
Bergmann, G.
Periodische Ketten linearer Transformationen. 360
Multiplicative closures. 612
Bergmann, O.
Optik in der verallgemeinerten Feldtheorie. 806
Conservation laws in classical electrodynamics. 824
Bergmann, P. G.
Generalized statistical mechanics. 231
Bergmann, P. G., and Schiller, R.
Classical and quantum field theories. 606
Bergmann, P. G., and Thomson, R.
Spin and angular momentum in general relativity. 915
Bergström, H.
Triangle-inequality for matrices. 716
Berker, R.
Forces exercées par un fluide visqueux sur un obstacle. 1030

Berkeš, B.
Berechnungsmethode des magnetischen Feldes. 116
Berkovitz, L. D.
Double trigonometric integrals. 371
Double Sturm-Liouville expansions. 464
Berlin, T. H., and Kac, M.
Spherical model of a ferromagnet. 232
Berlin, T. H., and Thomsen, J. S.
Dipole-dipole interaction in lattices. 712
Berman, D. L.
Linear operators. 57
Approximation by interpolation polynomials. 165
Extremal problem of theory of interpolation. 542
Polynomial operations in functional spaces. 767
Berman, G.
Finite projective geometries. I, II. 196, 1008
Berman, S. D.
Representations of finite groups. 619
Bermant, A. F. See Smirnov, V. I.
Bernard, J.-J.
Équation de Boltzmann. 521
Probabilité de choc des molécules sphériques. 521
Bernard, J.-J., et Siestrunck, R.
Mouvements fluids unidimensionnels. 1048
Bernardi, S. D.
Survey of schlicht functions. 35
Berndt, S. B.
Slowly oscillating delta wings. 512
Bernstein, D. L. See Coon, G. A.
Bernšteĭn, S. N.
*Collected works. Vol. I. 2
Weight functions and majorants of finite growth. 155
Antimajorants. 459
Condition for even nondecreasing function to be a weight function. 977
Berra, A. E. Sagastume. See Sagastume Berra, A. E.
Berri, R. Ya.
Binary forms of the fourth order. 686
Berry, F. J.
Diffraction of sound pulse by a screen. 333
Diffraction of sound pulses by oscillating strip. 333
Bers, L.
*Singularities of minimal surfaces. 292
*Generalizations of conformal mapping suggested by gas dynamics. 743
Berti, G.
Elasticità ereditaria. 1040
Bertolini, F.
Trasformata di Laplace. 268
Insieme limite degli aggregati gruppali d'insiemi. 456
Capacità di un condensatore sferico. 470
Funzioni omogenee. 737
Besicovitch, A. S.
Subsets of finite measure of sets of infinite measure. 28
Existence theorem for $dy/dx = \phi(x, y)$. 645
Beskin, N. M.
Pohlke-Schwarz theorem in central axonometry. 575
Beth, E. W.
Theorem of Löwenheim-Skolem-Gödel-Malcev. 714
Beth, H. J. E.
Systèmes plans à deux paramètres. 202
Bethe, H. A. See Salpeter, E. E.
Betz, A.
Gitterströmungen bei grossem Schaufelabstand. 1029
Beurling, A. (Cf. Ahlfors, L. V.)
Surfaces à courbure totale $\leqq 0$. 582
Bezicovici, I. S.
*Approximate calculations. 799
Bezikovič, Ya. S. See Bezicovici, I. S.
Bhabha, H. J.
Electron cascades. 63
Relativistic wave equations. 435
Bhabha, H. J., and Ramakrishnan, A.
Cascade theory. 62
Bhate, D. H.
Ratio of non-central chi-squares. 1102
Bhatnager, K. P.
Generalized Laplace integral. 555
Self-reciprocal functions. 977
Bhatnagar, P. L. See Kothari, L. S.; Kushwaha, R. S.
Bianchi, L.
*Opere. Vol. I, Parte prima. 524
Biarge, J. Fernández. See Fernández Biarge.
Bicadze, A. V.
General problem of mixed type. 280
Boundary problem for equation of mixed type. 281
Bickley, W. G., Comrie, L. J., Miller, J. C. P., Sadler, D. H., and Thompson, A. J.
*Bessel functions. Part II. Functions of positive integer order. 410
Bieberbach, L.
*Conformal mapping. 462
*Theorie der geometrischen Konstruktionen. 677
Satz Pólyascher Art. 1074
Biedenharn, L. C.
Identity satisfied by Racah coefficients. 642
Biermann, L., und Billing, H.
Moderne mathematische Maschinen. 589
Göttinger elektronische Rechenmaschinen. 694
Biernacki, M.
Propriétés des fonctions de distances. 679
Biésel, F.
Equations de la houle irrégulière. 423
*Wave propagation in water of varying depth. 1028
Biggeri, C.
Rational ballistics. 325
Biggiogero, G. Masotti. See Masotti Biggiogero.
Bílek, J.
Involution of de Jonquière. 402
Bilharz, H.
Genäherte Quadratur. 958
Bilinski, S.
Théorème de Jacobi. 203
Nets on closed orientable surfaces. 1007
Billing, H. See Biermann, L.
Bilo, J.
Relation affine entre deux triangles. 398
Bing, R. H.
Homeomorphism between 3-sphere and sum of two solid horned spheres. 192
Partitioning continuous curves. 192
Convex metric with unique segments. 669
Examples and counterexamples. 783
Bini, U.
Equazioni $x^n \pm y^n = M$. 137
Binnie, A. M.
Stability of surface of cavitation bubble. 594
Biran, L.
Deux formules de Liouville. 901
Birindelli, C.
Sistemi lineari ai differenziali totali. 278
Formule interpolatorie del Picone e calcolo numerico degli integrali multipli. 626
Birkhoff, G.
Vortex streets. I, II. 102, 918
Extensions of Lie groups. 134
Induced mass with variable density. 1027
Birkhoff, G., and Kotik, J.
*Fourier analysis of wave trains. 1137

Birkhoff, G., and Mac Lane, S.
*A survey of modern algebra. 939
Birman, M. S.
Method of steepest descent. 412
Birnbaum, Z. W.
Numerical tabulation of Kolmogorov's statistic. 389
Distribution-free tests of fit. 666
Bishop, J. F. W.
Plastic deformation of crystals. 603
Bishop, R. E. D.
Dynamical problems of plane stress and strain. 1143
Bjerhammar, A.
Method of least squares. 1127
Bjerre, Fr. Fabricius-. See Fabricius-Bjerre, Fr.
Blackman, J.
Heat equation for infinite rod. 475
Blackwell, D. (Cf. Arrow, K. J.; Smith, N. M., Jr.)
Extension of a renewal theorem. 994
*Randomization in statistical games. 999
Blanc, C.
Erreur dans un calcul numérique approché. 691
Blanc, D. See Maignan, P.
Blanch, G.
Equations with differential operators. 413
Blanch, G., and Yowell, E. C.
Tables on punched cards. 691
Blanchard, A.
Structures analytiques complexes. 690
Variétés kählériennes et espaces fibrés. 903
Blanchard, R.
Triangles inscrits et circonscrits. 398
Blank, H.
Corrente compressibile attorno ad un cilindro circolare. 425
Blank, Ya. P.
Translation surfaces of an elliptic space. 405
Blanuša, D.
Einbettungsprobleme. 202
Verallgemeinerung des Integralkosinus. 269
Integral theorems for Bessel functions. 979
Espaces elliptiques plongés dans espaces euclidiens. I. 1122
Blaquière, A.
Oscillateurs non linéaires. 472
Diagramme de Nyquist dans le domaine non linéaire. 800
Blaschke, W.
Varietà di C. Segre e geometria dei tessuti. 497
Bledsoe, W. W., and Morse, A. P.
Some aspects of covering theory. 362
Bleuler, K. See Arnous, E.
van der Blij, F.
Binary quadratic forms of discriminant -23. 623
Bliss, C. I.
Fitting the negative binomial distribution. 1102
Bliss, G. A.
Autobiographical notes. 343
Bloch, G.
Ensembles stationnaires de nombres ordinaux. 733
Block, H. D.
Laws of attraction. 980
Block, H. D., and Cargal, B.
Arbitrary mappings. 572
Block, I. E.
Plemelj theory for class A* of functions. 153
Kernel functions and class L^2. 989
Blomqvist, N.
Exhaustion process. 771
Blum, E. K.
Commutative Banach algebra. 1096
Blumenthal, L. M.
Systems of linear inequalities. 541
*Theory and applications of distance geometry. 1009
Blunden, W. R. See Wittrick, W. H.
Boas, R. P., Jr.
Sums representing Fourier transforms. 43
Growth of analytic functions along a line. 155
Integrability along a line for entire functions. 155
Inequalities between series and integrals. 631
Two theorems on integral functions. 739
Fonctions possédant une suite de dérivées positives. 853
Integral functions with negative zeros. 858
Partial sums of Fourier series. 867
Integrability of trigonometric series. III. 867
Functions odd about several points. 987
Elementary theorems on entire functions. 1074
Boa-Teh Chu. See Chu.
Bobynin, M. N.
Completely additive set functions. 28
Bochner, S.
Theta relations with spherical harmonics. 43
*Laplace operator on manifolds. 89
New viewpoint in differential geometry. 90
Partial differential equations and analytic continuations. 279
Stochastic processes with finite and non-finite variance. 771
Length of random paths. 886
Functional equations and modular relations, and functions of exponential type. 967
Zeta functions and linear partial differential operators. 986
Fourier transforms of time series. 1101
Bochner, S., and Martin, W. T.
Hartogs' theorem in complex spaces. 972
Complex spaces with singularities. I, II. 972
Bochner, S., and Yano, K.
Tensor-fields in non-symmetric connections. 904
Bodenheimer, F. S., and Schiffer, M.
Mathematical studies in animal populations. I. 781
Bödewadt, U. T.
Symmetrischer Kreisel. 100
Bodewig, E.
Numerische Lösung von algebraischen Eigenwertproblemen. II. 1128
de Boer, J. H.
Cayley form and Barsotti form of an algebraic chain. 1117
Boerdijk, A. H.
Close packing of equal spheres. 310
Boersch, H.
Gültigkeit des Babinetschen Theorems. 517
Boev, G. P.
*The theory of probability. 566
Bogolyubov, N. N.
Statistical mechanics. I. 230
Equations of hydrodynamics in statistical mechanics. 230
Bohan, N. A.
Numerical integration of equations of motion of minor planets. 414
Bohm, D.
Causal interpretation of quantum theory. 520
Bohman, H.
Approximation of continuous and analytic functions. 254
Bohr, H.
*Zeuthen's History of mathematics. 523
Uniform convergence of Dirichlet series. 552
Summability function and order function of Dirichlet series. 634
Boiteux, M.
Revenu distribuale et pertes économiques. 302
Boivie, O. See Laadi, H.
Bojanić, R.
Implizite Differentialgleichungen erster Ordnung. 375
Folge von Polynomen. 378
Bol, G.
Projektive Differentialgeometrie der Kurven. 407
Bölcskei, E.
Déformation des voiles minces. 700

Bolder, H.
*Flow functions and conformal mapping. 861
Bolotin, V. V.
Integral equations of torsion and stability. 1146
Boltovskoĭ, D. D. Morduhaĭ. See Morduhaĭ-Boltovskoĭ, D. D.
Boltyanskiĭ, V. G. (Cf. Yaglom, I. M.)
Vector fields on a manifold. 74
Cross-sections of fibre bundles. 307
Bolz, R. E.
Stability of a missile. 101
Bompiani, E.
Curvatura pangeodetica di una curva. 407
Connessioni affini non-posizionali. 409
Geometrie non-euclidee. 576
Immersione di una varietà in uno spazio di Riemann. 583
Coordinate di Grassmann. 1014
Topologie des éléments différentiels. 1122
Bonč-Bruevič, V. L., and Medvedev, B. V.
Quantum theory of fields. II. 227
Bonder, J.
Fonctions réalisant les représentations conformes. 366
Bondi, H.
Spherically symmetrical accretion. 212
*Cosmology. 912
Bondi, H., and Lyttleton, R. A.
Rotation of the earth. II. 1131
Bonnor, W. B.
Exact solutions in general relativity. 1133
Bononcini, V. E.
Integrali regolari del calcolo delle variazioni. 482
Problema di Dirichlet in domini rettangolari. 750
Bonsall, F. F.
Core-preserving transformations of a vector space. 881
Bonsall, F. F., and Goldie, A. W.
Algebras which represent their linear functionals. 768
Booth, A. D.
Electronic digital computor. 323
Bopp, F.
Quantentheorie der Elementarteilchen. 1046
Borden, A., Shelton, G. L., Jr., and Ball, W. E., Jr.
Electrolytic tank. 801
Bordoni, P. G.
Figura piana convessa. 897
Borel, A.
Cohomologie des espaces fibrés principaux. 490
Fonctions automorphes de plusieurs variables complexes. 1077
Borel, A., et Serre, J.-P.
Sous-groupes des groupes de Lie compacts. 948
Borel, E.
Fréquence des nombres premiers. 248
*Les nombres premiers. 620
Theory of play and integral equations. 667
Games involving chance and skill. 667
Linear forms and theory of play. 667
Intervalles séparant deux nombres premiers consécutifs. 950
Borevič, Z. I.
Homology groups connected with a free group. 619
p-extensions of a regular local field. 619
Borkmann, K.
Hilfsfunktionen die bei Lösung der Gleichung der gedämpften Welle auftreten. 1084
Born, M.
*Theorie der idealen Kristalle. 232
Obituary: A. J. W. Sommerfeld, 1868–1951. 525
Borok, V. I. Kellis-. See Kellis-Borok.
Borovikov, V.
Intersection of sequence of simplexes. 784
Borowitz, S., and Friedman, B.
Three-body scattering problems. 756
Borowitz, S., and Kohn, W.
Stress tensor of the electron. 119
Borsuk, K.
Finite dimensional continuum having an infinite number of Cartesian factors. 71
Cartesian product of Cantor-manifolds. 72
Bösch, W.
Komplexe Zahlen auf einer Multipliziermaschine. 1021
Boscher, J. (Cf. Malavard, L.)
Détermination numérique de fonctions biharmoniques. 504
Bose, B. N. See Mitra, S. C.
Bose, N. N.
MacRobert's E-function. 642
Bose, R. C.
Partially balanced incomplete block designs. 610
Bose, R. C., and Bush, K. A.
Orthogonal arrays. 442
Bose, R. C., and Connor, W. S.
Group divisible incomplete block designs. 124
Bose, R. C., and Shimamoto, T.
Partially balanced incomplete block designs. 67
Bose, S. K.
Generalised Laplace integral. I, II. 372, 555
Laplace transform. 465
Whittaker transform. 639
Bose, S. N.
Nouvelle théorie unitaire. 915
Boselli, A. Rocco. See Rocco Boselli, A.
Botella Raduán, F.
Reviews of three notes. 688
Bott, R.
Combinatorial invariants for polyhedra. 74
*Symmetric solutions to majority games. 779
Third symmetric potency of S_1. 1003
Bottema, O.
Polar triangle of a conic section. 1114
Bouchout, V. Van. See Van Bouchout.
Bouckaert, L. See Gillis, P. P.
Bouligand, G.
Pensée mathématique et histoire des sciences. 523
La pensée prospective en mathématiques. 715
Parallélismes généralisés. 84
Transformations de contact. 900
Bouniol, F., et Eichelbrenner, E. A.
Calcul de la couche-limite laminaire compressible. 217
Bourbaki, N.
*Eléments de mathématique. XIV. Livre II: Algèbre. Chap. VI, VII. 237
*Eléments de mathématique. XV. Livre V: Espaces vectoriels topologiques. 880
*Eléments de mathématique. XIII. Livre VI: Intégration. Chap. I, II, III, IV. 960
*Eléments de mathématique. XVI. Livre III: Topologie générale (fascicule de résultats). 1106
Bourgin, D. G.
Paracompactness of weak simplicial complex. 70
Sets of visibility. 489
Restricted separation of polyhedra. 495
Some multiplicative functionals. 883
Bourion, G.
Prolongement analytique des séries lacunaires. 364
Bouwkamp, C. J.
Diffraction theory. 1148
Bowman, F.
Cyclic pentagons. 493
Boyd, A. V., and Hyslop, J. M.
Strong Rieszian summability. 463
Boyer, C. B.
Fermat and Descartes. 609
Braams, C. M.
Motion of a top. 421

Braconnier, J.
Module complètement décomposable. 11
Brafman, F.
Generating functions for Bessel polynomials. 872
Generating functions for ultraspherical polynomials. 978
Ultraspherical and Jacobi polynomial sets. 1083
Bragard, L.
Méthode dynamique en géodésie. 94
Densité d'une masse fluide et pesanteur superficielle. 94
Formules relatives aux harmoniques sphériques. 271
Intégrales relatives aux harmoniques sphériques. I. 271
Géodésie dynamique. I. 414
Déviation absolue de la verticale sur le cogéoïde. 415
Braithwaite, R. B.
Scientific explanation. 1097
Brandt, H.
Binäre quadratische Formen im Gaussschen Zahlkörper. 358
Ternäre quadratische Formen. I, II, III. 453, 454, 730
Brauer, A.
Characteristic roots of a matrix. V. 836
Matrices with characteristic roots in unit circle. 836
Class of Hadamard determinants. 1054
Distribution of Jacobian symbols. 1064
Brauer, A., and Reynolds, R. L.
Theorem of Aubry-Thue. 21
Brauer, R.
Characters of groups of finite order. 844
Braumann, P. B. T.
Partitions in mathematics. 1053
Braun, I., and Reiner, M.
Dimensions in tensor analysis. 114
Braunbek, W.
Der symmetrische Kreisel. 1136
Brčić-Kostić, M.
Congruence $(a+b)^n - a^n - b^n \equiv 0 \pmod{n}$. 353
Brehovskih, L. M.
Diffraction from uneven surface. I, II. 703
Propagation of sound in nonhomogeneous medium. 1142
Breidenbach, W.
*Das Delische Problem. 399
Breit, G.
Topics in scattering theory. 119
Breitenhuber, L.
Koppelschwingungen zweier Hohlraumresonatoren. 433
Brémard, J. C. Belgrano. See Belgrano Brémard, J. C.
Bremekamp, H.
*Théorie de Sturm-Liouville. 1088
Bremermann, H.-J.
Charakterisierung von Regularitätsgebieten. 971
Bremmer, H.
Asymptotic evaluation of diffraction integrals. 225
Paraxial constants of electron lenses. 337
Bremond, A. Plans Sanz de. See Plans Sanz de Bremond.
Brennan, J. G.
Manifolds whose points image points chosen from groups of linear series. 1116
Brennan, R. O., and Mulligan, J. F.
Coulomb-exchange integrals. 643
Breny, H.
Théorie statistique des faisceaux. 778
Thickness in random slivers. 890
Brewster, J. P.
Cauchy's existence theorem. 983
Bridgman, P. W., Quine, W. V., Van Vleck, J. H., and Widder, D. V.
Obituary: E. V. Huntington. 832
Brillouin, L.
*Wave propagation in periodic structures. 704
Britten, K. H. V.
Influence factors in problems of fluid flow. 1138
Britzelmayr, W.
Axiomatik der Wahrscheinlichkeitslehre. 186
Broadbent, H. N. G. See Shen, D. W. C.
Brock, J. E.
Variation of coefficients of linear equations. 874
Brock, P., and Murray, F. J.
Exponential sums in step by step integration. II. 413
Brodeau, A.
*Vibrations des solides déformables. 336
Brodskiĭ, M. L.
Errors in determination of characteristic values and vectors. 692
Broer, L. J. F.
Dynamical behaviour of a canonical ensemble. 231
de Broglie, L.
Note de Vigier. 117
Interprétation de la mécanique ondulatoire. I, II, III. 117, 435, 825
Mécanique ondulatoire des systèmes de particules. 520
Broman, A.
*Conformal mapping and convergence on the boundary. 742
Bronkhorst, P.
*Diophantine equations: $x_1^2 + x_2^2 + \cdots + x_s^2 = n$, $x_1 + x_2 + \cdots + x_s = m$. 1063
Bronšteĭn, I. N.
*Legacy of N. I. Lobačevskiĭ. 832
Brooker, R. A., and Wheeler, D. J.
Floating operations on the EDSAC. 694
Brooks, F. C. See Smith, N. M., Jr.
Brousse, P.
Problème de Dirichlet singulier. 984
Brouwer, L. E. J.
Accumulation cores of infinite species of point cores. 441
Historical background, principles and methods of intuitionism. 528
Nonconstructible fixed points. 783
Browder, F. E.
Linear elliptic equations of even order. 174
Elliptic differential equations of arbitrary order. 473
Dirichlet problem for elliptic equation. 984
Parabolic equations of arbitrary order; boundary-value problems for elliptic equations. 984
General linear elliptic differential operator. 984
Brower, W. B., and Lassen, R. H.
Additional values of $C(k)$. 587
Brown, G. E.
Bound-state perturbation theory. 826
Brown, L. M.
Configuration in five dimensions. 310
Brown, S. L. See Schwetman, H. D.
Brown, W. B.
*Laminar boundary layer for porous plate. 1031
Brownell, F. H.
Translation invariant measure over Hilbert space. 963
Brownlee, K. A., Hodges, J. L., Jr., and Rosenblatt, M.
Up-and-down method with small samples. 1104
Broyles, A. A. See Barfield, W. D.
Bruevič, V. L. Bonč-. See Bonč-Bruevič.
Bruhat, Y. Fourès-. See Fourès-Bruhat.
de Bruijn, N. G., and Erdös, P.
Recursion formula and Tauberian theorems. 973
Bruins, E. M.
Ancient Egyptian arithmetic: 2/N. 1
Square roots and cube roots. 800
*Fontes matheseos. Main features of pre-Greek and Greek mathematical thought. 831
*Nouvelles découvertes sur les mathématiques babyloniennes. 1049
Brulin, O., and Hjalmars, S.
Wave equations for integer spin particles. 437

Brun, V.
Niels Henrik Abel. 832
Formula of Simpson for non-equidistant ordinates. 1019
Brun, V., Stubban, J. O., Fjeldstad, J. E., Tambs Lyche, R., Aubert, K. E., Ljunggren, W., and Jacobsthal, E.
*Divisibility of difference between two binominal coefficients. 724
Brunet, P.
Vie et oeuvre de Clairaut. 832
Brunk, H. D., and Ewing, G. M.
Approximation of double integrals. 735
Bruno, A.
Matematica finanziaria. 169
Scarto di una variabile casuale. 486
Brusotti, L.
Metodi di esaustione. 609
La "piccola variazione." 899
Gli "Elementa" di C. E. Filippa. 1050
Bryson, A. E.
Aerodynamic heating. 220
Brzezicki, A. de Castro. See Castro Brzezicki.
Bubb, F. W.
*Linear noise smoothing and predicting filters. 891
Bucerius, H.
Bahnbestimmung als Randwertproblem. III. 211
Lineare Gleichungen. 235
Determinierung der klassischen Mechanik. 324
Buchdahl, H. A.
Conform-invariant equations of gravitational field. 1133
Buchholz, H.
Whittakersche Differentialgleichung. 748
*Die konfluente hypergeometrische Funktion. 978
Büchi, J. R.
Representation of lattices. 940
Buck, R. C.
Operator algebras and dual spaces. 290
Zeros of an entire function. 631
Unique segments in metric spaces. 678
Generalized asymptotic density. 854
Admissibility of sequences. 965
Essentially admissible sequences. 966
Buckel, W.
Ähnlichkeit bei konformen Abbildungen. 366
Buckens, F.
Configurations moyennes de mobiles indéformables. 99
Tensions thermo-élastiques. 1146
Bückner, H.
Näherungsweise Lösung von Integralgleichungen. 94
Integral occurring in theory of servomechanisms. 145
*Die praktische Behandlung von Integral-Gleichungen. 210
Inequalities for solutions of linear differential equations. 648
Budden, K. G.
Polarization of radio waves. 824
Airy-integral function. 1083
Budyka, Yu. N.
Meshing theory and wear resistance. 694
van Bueren, H. G.
Attraction between a plate and a cylinder. 934
Buharinov, G. N.
Equilibrium of elastic circular cylinder. 1145
Bukreev, B. Ya.
*Lobačevskiĭ's planimetry in an analytic exposition. 581
Bulgakov, B. V.
Division of rectangular matrices. 125
Bundgaard, S.
Homotopy in regular numbered complexes. 572
Bundgaard, S., and Nielsen, J.
Normal subgroups with finite index. 15
Buneman, O.
Circulation in flow of electricity. 608
Bunimovič, A. I.
Discharge of gas with subsonic velocities. 698
Bunimovič, V. I.
Oscillation with random amplitude and phase. 995
Buquet, A.
Equation diophantienne $x^3 + dx + e = z^2$. 450
Bura, M. R. Sura-. See Sura-Bura, M. R.
Burau, W.
Grundmannigfaltigkeiten, ihre Dualitätstheorie und Fundamentalkorrelationen. 313
Algebraische Geometrie in idealtheoretischer Begründung. 313
Relazioni quadratische d'una grassmanniana. 1117
Burbidge, E. M. See Burbidge, G. R.
Burbidge, G. R., and Burbidge, E. M.
Equation of transfer and residual intensities. 591
Burchnall, J. L.
Determinants with hypergeometric elements. 44
Bureau, F.
Fonctions analytiques de plusieurs variables complexes. 37
Equations aux dérivées partielles linéaires hyperboliques. 1091
Burgat, P.
*Problèmes aux limites. I, II. 50, 875
Burger, A. P.
Inversion of matrices. 1128
Burger, E.
Einzigkeit der Cayley-Zahlen. 614
Burgers, J. M.
Turbulent flow with shear. I, II. 1031
Burgess, C. E.
Continua which are the sum of indecomposable continua. 894
Burke, P. J.
IBM computation of sums of products. 209
Burkhart, W. H.
*Theorem minimization. 1018
Burkill, H.
Cesàro-Perron almost periodic functions. 162
Burkill, J. C.
Rearrangements of functions. 149
Burniat, P.
Surfaces canoniques quadruples. 898
*Modèles de surfaces canoniques normales. 898
Burrows, W. H.
Hyperbolic coordinate systems. 195
Burton, L. P.
Oscillation theorems for differential systems. 170
Burton, L. P., and Whyburn, W. M.
Minimax solutions of ordinary differential systems. 470
Burton, W. K., and Touschek, B. F.
Commutation relations in quantum mechanics. 1045
Busbridge, I. W.
Stellar spectra. 96
Busemann, H.
Volume in terms of concurrent cross-sections. 1115
Busemann, H., and Kelly, P. J.
*Projective geometry and projective metrics. 1008
Bush, K. A. (Cf. Bose, R. C.)
Theorem due to MacNeish. 125
Orthogonal arrays of index unity. 125
Continuous functions without derivatives. 148
Bustamante, E.
Elementary particles at rest. 592
Butler, S. F. J.
Stokes's stream function for motion with spherical boundary. 593
Butlewski, Z.
Théorème de l'oscillation. 169
Butzer, P. L.
Convergence of Kantorovitch polynomials. 641
Two-dimensional Bernstein polynomials. 641
Bye, J. A. W. van der Does de. See Does de Bye.

Bykov, Ya. V.
Linear integro-differential equations. 1092
Byušgens, S. S.
Geometry of adiabatic flow. 328
Stream-lines. II. 422

Cabannes, H.
Onde de choc attachée. 108
Solutions des équations de Navier. 595
Courbure au sommet de l'onde attachée. 921
Etude théorique des fluides compressibles. 1033
Caccioppoli, R.
Misura e integrazione sulle varietà parametriche. II, III. 257, 258
Généralisation des fonctions analytiques. I, II. 364
Equazioni differenziali negli spazi astratti. 659
Cafiero, F.
Funzioni additive d'insieme. 362
Fenomeno di Peano nelle equazioni differenziali. I, II. 375
Equazioni differenziali ordinarie i cui punti di Peano costituiscono un insieme di misura nulla. 375
Inversione dell'ordine d'integrazione. 457
Funzioni misurabili rispetto ad una ed assolutamente continue rispetto ad un'altra variabile. 856
Cahen, G.
Etude topologique d'équations différentielles. 693
Čahtauri, A. I.
Projective bending of a plane net. 902
Intrinsic geometry of plane nets. 1120
Caianiello, E. R., and Fubini, S.
Algorithm of Dirac spurs. 520
Čakvetadze, S. S.
Boundary problem of Haseman. 738
Calabi, L.
Sottogruppi di un gruppo di Lie. 18
Extensions des groupes topologiques. 245
Calapso, R.
*Matematici di Sicilia. 1049
*Questioni di geometria conforme. 1121
Calderon, A. P.
General ergodic theorem. 1071
Calderon, A. P., and Klein, G.
Extremum problem concerning trigonometrical polynomials. 266
Calderon, A. P., and Zygmund, A.
Existence of singular integrals. 637
Caldirola, P.
Massa dell'elettrone. 827
Caldirola, P., e Gulmanelli, P.
Equazione ondulatoria per una particella a spin 1/2. 827
Caligo, D.
Classe di equazioni differenziali non lineari. 645
Equazioni differenziali del secondo ordine. 982
Calleja, P. Pi. See Pi Calleja.
Callen, H. B., and Greene, R. F.
Irreversible thermodynamics. 230
Cameron, R. H., and Hatfield, C.
Series for unbounded nonlinear functionals. 989
Camm, G. L.
Self-gravitating star systems. II. 590
Camm, R.
Simple free products. 616
Campbell, R.
Développements d'une fonction en série de polynomes. 467
Séries de polynomes orthogonaux. 467
Campedelli, L.
Obituary: G. Castelnuovo. 121
Campus, F. See Gillis, P. P.
Cantelli, F. P.
*Calcolo delle probabilità e analisi matematica. 1098
Cantoni, R.
Reti con vertici tripli. 67
Una rete speciale. 68
Superfici rigate. 84
Cap, F.
Wechselwirkung von Leptonen. 437
Allgemeine Relativitätstheorie und einheitliche Feldtheorie. 505
Čaplygin, S. A.
*Collected works. Vols. I, II, III, IV. 609
Capon, R. S.
Hamilton's principle and non-holonomic systems. 917
Capuano, R. See Salzer, H. E.
Caputo, M.
Configurazione della curve algebriche sghembe. 789
Carafa, M.
Spazio funzionale analitico e rappresentazione dei funzionali polinomiali. 287
Cargal, B. See Block, H. D.
Čarin, V. S.
Interpretation of Lobačevskiĭ's geometry. 675
Locally nilpotent groups. 1059
Carleson, L.
Functions regular in unit circle. 261
Functions with bounded Dirichlet integrals. 458
Bounded analytic functions and closure problems. 630
Carletti, E.
Definizione della forma F^n_m. 353
Carlitz, L.
Arithmetic function. 22
Diophantine approximation in fields of characteristic p. 23
Bernoulli numbers. I, II. 138, 973
Bernoulli and Euler polynomials. I, II. 163, 640
Irreducible polynomials. 250
Primitive roots in a finite field. I, II, III. 250, 357, 539
Ménage polynomials. 346
Common index divisors. 357
Paper of Bagchi and Chatterjee. 478
Problem of Dickson. 539
Bernoulli polynomials. 539
Bernoulli numbers and polynomials. 539
Congruences for Bernoulli numbers. I, II. 539, 1064
Sums connected with quadratic residues. 621
Congruences connected with Jacobi elliptic functions. 621
Formula of Szily. 642
Formula of Grosswald. 642
Orthogonal matrices. 716
Three-line latin rectangles. 726
Theorem of Glaisher. I, II. 726, 1064
Sums analogous to Dedekind sums. 847
Equations in a finite field. 848
Conjecture of André Weil. 848
Theorem on congruences. 951
Schur derivative. 951
Partitions in $GF[q, x]$. 952
Bernoulli and Euler numbers. 1064
Carlson, A. J.
Obituary: F. R. Moulton: 1872–1952. 833
Carlson, F.
Séries de Dirichlet. IV. 464
Carnap, R.
*The continuum of inductive methods. 4
Carpani, A.
Funzione ipergeometrica confluente di Tricomi. 642
Carrasco, L. Esteban. See Esteban Carrasco.
Carruccio, E.
Coerenza dei sistemi ipotetico-deduttivi. 834
Carruth, P. W.
Products of ordered systems. 529
Carson, J. R.
*Electric circuit theory and the operational calculus. 824

Carstoiu, I.
Déformation d'une particule dans le mouvement d'un fluide. 1137
Cartan, E.
*Oeuvres complètes. Partie I. 343
Cartan, H.
Théorème de Radó. 264
Cartan, H., et Serre, J.-P.
*Séminaire de topologie algébrique de l'Ecole Normale Supérieure, 1950–51. 670
Cartan, H., Serre, J.-P., Cerf, J., Samuel, P., Dixmier, J., et Frenkel, J.
*Séminaire de topologie algébrique de l'Ecole Normale Supérieure, 1948–49. 670
Carter, D. S.
Electrical method for determining journal-bearing characteristics. 324
Carton, M.
Suites de Laplace périodiques. 1120
Cartwright, M. L. (Cf. Collingwood, E. F.)
Relaxation oscillations. 647
Casas, P.
Theory of groups. I, II. 721
Casesnoves, D. Maravall. See Maravall Casesnoves, D.
Casey, J. P. See Lewis, E. A.
Cassels, J. W. S.
Perronscher Satz. 358
Product of n inhomogeneous linear forms. 358
Paper of Niven and Zuckerman. 454
Equation $a^x - b^y = 1$. 536
Minkowski-Hlawka theorem. 624
Product of two inhomogeneous linear forms. 954
Cassina, U.
Fondamenti della geometria secondo Hilbert. II, III. 75
Connessi irriducibili e nozione di arco. 304
Arco nella teoria degli insiemi. I, II, III. 1002
Sistema di numerazione a basi variabili. I, II. 1002
Castoldi, L.
Recente teoria relativistica. 97
Linee sostanziali nel moto di un continuo deformabile. 101
Tensori negli spazi di Riemann. 583
Derivate temporali fatte rispetto a sistemi curvilinei e deformabili. 1136
de Castro, G.
Differences of Bernoulli and Poisson variables. 566
de Castro Brzezicki, A.
Continuable and noncontinuable Dirichlet series. 39
Plane motion of rockets. 215
Studies on nonlinear mechanics. I, II. 754, 982
Oscillations of dissipative systems. 808
Soluzioni periodiche di una equazione differenziale. 874
Cattabianchi, L. Tanzi. See Tanzi Cattabianchi.
Cattaneo, C.
Torsione di due sfere a contatto. 701
Cavallaro, V. G.
Geometria del triangolo. 194
L'ellipse de Steiner. 785
Cavé, R.
Contrôle statistique. 391
Cecconi, J.
Differenziabilità nel senso di Stolz. 737
Definizioni di variazione totale. 856
Teorema di Stokes. 1072
Čekmarev, A. I. See Kac, A. M.
Čelidze, V. G.
Borel summation of double series. 159
Transformations of double sequences. 159
Summability of double series. I, II. 159
Double transformations of functions of two variables. 159
Čelidze, V. G. (Continued)
Integral transforms of functions of two variables. 638
Double Denjoy integrals. 735
Cenov, I.
Equilibre d'un point sur un ellipsoïde homogène. 95
Equations of analytic dynamics. 916
Transformations of equations of motion and geodesic trajectories. 916
Gauss's principle of least constraint. 916
Translation et rotation d'un corps solide. 1024
Mouvement d'un corps solide. 1136
Cereteli, O. D.
Application of partially ordered spaces. 148
Cerf, J. See Cartan, H.
Čerkudinov, S. A., and Speranskiĭ, N. V.
Synthesis of plane link mechanisms with stops. 324
Černikov, S. N. (Cf. Kuroš, A. G.)
Theory of infinite p-groups. 617
Kronecker-Capelli theorem. 716
Černý, K.
Minimum of binary biquadratic forms. 623
Cesarec, R.
Circular rational curves of 4th order. 895
Quartiques planes unicursales circulaires. 895
Cesari, L.
Existence theorem of calculus of variations. 292
Processo di retrazione per superficie. 292
Cesari, L., and Fullerton, R. E.
Regular representations of surfaces. 150
Ceschino, F.
Methode de Graeffe pour calcul automatique. 1019
Četković, S.
Système infini d'équations d'ensembles. 238
Différentiabilité des fonctions réelles. 855
Cetlin, M. L.
Synthesis of relay contact networks. 606
Četveruhin, N. F.
Fundamental theorem of axonometry. 575
Chabauty, C.
*Géométrie des nombres. 454
Géométrie des nombres. 541
Empilement de sphères et la constante γ_n d'Hermite. 541
Empilement de calottes égales. 850
Chadaya, T. G.
Summability of double series. 159
Cesàro and Nörlund summation of double series. 634
Chaki, Manindra Chandra. (Cf. Bagchi, Hari das.)
Non-symmetric harmonic space. 585
Chakrabarty, N. K.
Calcul symbolique. 870
Chakraborty, P. N. See Chandra Sekar, C.
Chakravarti, I. M.
Analysis of covariance in two-stage sampling. 777
Chalk, J. H. H.
Minimum of non-homogeneous bilinear form. 252
Product of two linear forms. 1065
Chamard, L.
Distance d'un point variable à un ensemble fixe. 400
Chamberlin, E., and Wolfe, J.
Multiplicative homomorphisms of matrices. 611
Critical points of polynomials. 870
Chand, Uttam.
Obituary: Dwarka Nath Nanda. 609
Chanda, K.
Efficiencies of selection of sampling units. 487
Chandler, K. N.
Distribution and frequency of record values. 778
Chandra, Chaki Manindra. See Chaki.
Chandra Das, Sisir.
Elastic distortion of a cylindrical hole. 818
Chandra, Dinesh. See Dinesh Chandra.

Chandra Sekar, C., and Chakraborty, P. N.
Orthogonal semi-polynomials. 995
Chandrasekhar, S.
Turbulence caused by thermal instability. 328
Isotropic turbulence in magnetic-hydrodynamics. I, II. 424
Statistical basis of stellar scintillation. 803
Viscous flow rotating cylinders. 813
Inhibition of convection by a magnetic field. 813
Chandrasekhar, S., and Elbert, D.
Roots of $J_{-(l+\frac{1}{2})}(\lambda\eta)J_{l+\frac{1}{2}}(\lambda)-J_{l+\frac{1}{2}}(\lambda\eta)J_{-(l+\frac{1}{2})}(\lambda)=0$. 1126
Chandrasekharan, K., and Minakshisundaram, S.
*Typical means. 1077
Chang, Chieh-Chien, and O'Brien, V.
Exact solutions of two-dimensional flows. 1032
Chang, Chieh-Chien, and Werner, J.
Telegraph equation and supersonic shear flow. 178
Chang, Chieh-Chien, Chu, Boa-Teh, and O'Brien, V.
Whittaker function $W_{k,m}(z)$. 469
Chang, Han, and Rideout, V. C.
Generalization of modulation spectra. 637
Chapman, D. G.
Sufficient statistics. 189
Ratio of Poisson means. 488
Inverse, multiple and sequential sample censuses. 777
Chapman, D. R.
Airfoil profiles for minimum pressure drag. 512
Charles, B.
Endomorphismes d'un groupe abélien primaire. 721
Anneaux commutatifs d'opérateurs linéaires. I, II, III. 768, 939
Permutabilité des opérateurs linéaires. 939
Charnes, A. (Cf. Sedney, R.)
Zeros of modified Bessel function derivatives. 642
*Wing-body interaction in supersonic flow. 699
Charney, J. G.
Scale of atmospheric motions. 428
Charney, J. G., and Phillips, N. A.
Numerical integration of quasi-geostrophic equations. 816
Charrueau, A.
Formules matricielles relatives aux complexes linéaires. I, II, III. 6, 611
Suites et cycles de projectivités. 611
Chase, G. C.
*History of mechanical computing machinery. 1021
Châtelet, F.
Exemple de B. Segre. 790
Chattelun, L.
*Calcul vectoriel. Tome I. 361
Chatterjee, B. C.
Geometrical configurations. I. 688
Chatterjee, S. K.
Perturbation in microwave cavities. 604
Chatterji, L. D.
Radial oscillations of gaseous star. 93
Anharmonic pulsations of a polytropic model. 212
Chatterji, Phatikchand. See Bagchi, Hari das.
Chazy, J.
Problème des trois corps. 95
Déterminant fonctionnel de la mécanique céleste. 415
Checcucci, V.
Funzioni olomorfe di più matrici. 277
Chehata, C. G.
Ordered semigroup. 944
Chellevold, J. O.
Conjugate points of quadratic functionals. 769
Chen, K. K. See Ku, C. H.
Chen, Kuo-Tsai.
Isotopy invariants of links. 193
Chen, Yu Why.
Supersonic flow through nozzles. 218
Cheng, M. T.
*Uniqueness of multiple trigonometric series. 1081
Cherep, R.
Affine invariants of pairs of space curves. 1121
Chern, Shiing-shen, and Kuiper, N. H.
Imbedding of compact Riemann manifolds in euclidean space. 408
Cherry, T. M.
Tables for hypergeometric functions, of high order. 905
Transformation of hodograph equation. 921
Cherubino, S.
Matrici riemanniane e semiriemanniane. 8
Matrice-moltiplicatore dei settori economici. 392
Famiglie di matrici. 523
Matrici e sistemi lineari infiniti. 1095
Chester, W.
Decay of shock waves. 598
Chevalley, C.
*Théorie des groupes de Lie. II. 448
Chia Chiao Lin. See Lin.
Chiang, Tse-Pei.
Normalcy of completely continuous operators. 56
Chia-Shun Yih. See Yih.
Chieh-Chien Chang. See Chang.
Chih-Bing Ling. See Ling.
Chinčin, A. Ja. See Hinčin, A. Ya.
Ching Chun Li. See Li.
Chisini, O.
Principio di corrispondenza. 496
Costruzione a priori delle trecce caratteristiche. 497
*Courbes de diramation des plans multiples. 680
Postulato di Euclide. 895
Chiu, Wan-cheng.
Oscillations of the atmosphere. 1034
Chong, F.
Indentation by a rigid punch. 926
Chow, Hung Ching.
Summable series. 39
Chow, Wei-Liang.
Picard varieties. 315
Quotient variety of an Abelian variety. 580
Chow, Wei-Liang, and Kodaira, K.
Analytic surfaces with two independent meromorphic functions. 37
Chowla, S. See Ankeny, N. C.
Chowla, S., Herstein, I. N., and Scott, W. R.
$x^d=1$ in symmetric groups. 947
Choy-Tak Taam. See Taam.
Chraplyvy, Z. V. See Barker, W. A.
Chrestenson, H. E. See Civin, P.
Christiano, J. G. See Tyler, C. M., Jr.
Christov, Chr.
Notions et lois de la mécanique classique. 215
Chu, Boa-Teh. (Cf. Chang, Chieh-Chien.)
Interaction of strong shock and Mach waves. 108
Chuan-Chih Hsiung. See Hsiung.
Chueh-ming Wang. See Wang.
Chung, Kai Lai.
Lois de probabilité unimodales. 771
Corrections: "Fluctuations of sums of random variables." 771
Renewal theorem in higher dimensions. 994
Markov chains. 1099
Chung, Kai Lai, and Pollard, H.
Extension of renewal theory. 61
Church, A., and Quine, W. V.
Definability and decidability. 233
Churchhouse, R. F.
Criterion for irrationality. 957
Cibrario, M. Cinquini-. See Cinquini-Cibrario.
Cicala, P.
Determination of modes and frequencies. 587

Cicco, J. De. See De Cicco.
Ciliberto, C.
Equazione non lineare di tipo parabolico. 51
Problema al contorno per $u_{xx} - u_y = f(x, y, u, u_x)$. 651
Cini, M.
Dirac's new electrodynamics. 228
Commutation laws of quantized fields. 607
Cinquini, S. (Cf. Cinquini Cibrario, M.)
Approssimazione delle funzioni quasi-periodiche. 162
Teorema di unicità per $p = f(x, y, z, q)$. 378
Funzioni quasi-periodiche ed equazioni differenziali. 637
Cinquini-Cibrario, M.
Equazioni non lineari di ordine n di tipo iperbolico. 281
Alcuni problemi preliminari. I, II. 281
Metodi esistenziali in analisi matematica. 627
Cinquini Cibrario, M., e Cinquini, S.
Problema di Cauchy per $p = f(x, y, z, q)$. 1089
de la Cinta Badillo, M^a.
George Berkeley. 832
Citlanadze, E. S.
Nonlinear functional equations. 657
Minimax points in Banach spaces. 1094
Civin, P.
Multiplicative closure and the Walsh functions. 163
Civin, P., and Chrestenson, H. E.
Class of perfect sets. 636
Cività, T. Levi-. See Levi-Cività, T.
Clagett, M. (Cf. Moody, E. A.)
Archimedes in the middle ages. 524
Clairaut, A.
*Théorie de la figure de la Terre tirée des principes de l'hydrostatique. 121
Clarion, C. See Valensi, J.
Clarke, C. E.
Homologies in a normal space. 895
Clark, F. E.
Positivity of polynomial forms. 940
Clark, R. A., and Reissner, E.
Finite bending of toroidal shells. 516
Clark, R. A., Gilroy, T. I., and Reissner, E.
Stresses and deformations of toroidal shells. 429
Clarke, F. M.
Quasi-regularity and Perlis-Jacobson radical. 348
Clarke, P. M.
Rectangular lattices with unequal block sizes. 67
Clauser, E.
Trasformazioni nello spazio-tempo pseudoeuclideo. 807
Clement, M. D.
Space of immersion of a variety. 316
Clemmow, P. C.
Radio propagation. 1149
Clemmow, P. C., and Munford, C. M.
Table of $(\frac{1}{2}\pi)^{\frac{1}{2}} \exp(\frac{1}{2}i\pi\rho^2) \int_\rho^\infty \exp(\frac{1}{2}i\pi\lambda^2)d\lambda$. 500
Clemmow, P. C., and Senior, T. B. A.
Generalized Fresnel integral. 1083
Clowes, J. S.
Groups of odd order. 350
Clowes, J. S., and Hirsch, K. A.
Simple groups of infinite matrices. 1060
Clunie, J.
Determination of an integral function. 547
Quasi monotone series. 1078
Coburn, N.
*Correlation tensors in homogeneous turbulence. 105
Independent scalars in homogeneous turbulence. 217
Cochran, W. G.
Goodness of fit. 190
*Sampling techniques. 887
Cockcroft, W. H.
Homomorphisms of sequences. 397
Coddington, E. A.
Spectral representation of differential operators. 278
Coddington, E. A., and Levinson, N.
Uniqueness and the convergence of successive approximations. 169
Perturbations of linear systems. 981
Coelho, R. P.
Properties of regular spaces. 1001
Coester, F.
Symmetry of the S matrix. 828
Coester, F., and Jauch, J. M.
Angular correlations. 828
Čogošvili, G. S.
Fundamental homomorphisms of duality. 573
Cohen, A. C., Jr.
Truncated Pearson frequency distributions. 1103
Cohen, D.
Lift and drag of flat swept-back wings. 512
Cohen, E.
Congruences du deuxième degré dans les corps algébriques. 538
Representations by cubic congruences. 725
Cohen, H.
Stability equation with periodic coefficients. 171
Cohen, K. J.
Łukasiewicz's "Intuitionistic theory of deduction." 1053
Cohn, G. I., and Saltzberg, B.
Solution of nonlinear differential equations. 647
Cohn, H. (Cf. Giese, J. H.)
Fields of small discriminant. 251
Algorithm for cubic forms. 540
Stable lattices. 1066
Cohn, P. M.
Structure of tensor-spaces. 130
Theorem of Magnus. 532
Cohn, R. M.
Manifolds of difference polynomials. 721
Cole, A. J.
Diophantine approximation. 956
Cole, J. D.
Fundamental solution of $wy_{vv} + y_{ww} = 0$. 380
Cole, J. D., and Wu, T. Y.
Heat conduction in a compressible fluid. 512
Collatz, L.
Einschliessungssätze bei Iteration und Relaxation. 322
Numerische Bestimmung periodischer Lösungen bei nichtlinearen Schwingungen. 412
Fehlerabschätzung bei elliptischen Differentialgleichungen. 588
Aufgaben monotoner Art. 799
Instabilität beim Verfahren der zentralen Differenzen. 907
Collingwood, E. F.
Inégalité fondamentale des fonctions méromorphes. 460
Valeurs multiples d'une fonction méromorphe et ramification de sa surface de Riemann. 461
Inequality for meromorphic functions. 740
Collingwood, E. F., and Cartwright, M. L.
Boundary theorems for meromorphic function. 260
Colmez, J.
Espaces précompacts. I, II. 1106
Colombo, G.
Sistema non-lineare in due gradi di libertà. 557
Fenomeno di isteresi oscillatoria. 754
Equation intégrodifférentielle non linéaire. 383
Equations intégrales à noyaux logarithmiques. 562
Fonction de Dirac en physique mathématique. 873
Combes, J.
Dérivées des fonctions analytiques. I, II. 631
Equations différentielles d'ordre infini. 647
Comét, S.
*Conformal mapping and group automorphisms. 737

Comolet, R.
Ecoulement d'un fluide compressible visqueux. 424
Comrie, L. J. See Bickley, W. G.
Conforto, F.
Matrici quasi abeliane. 314
Considerazioni sui numeri reali. 544
Geometria simplettica. 579
*Funzioni abeliane modulari. Vol. 1. 859
*Fonctions abéliennes et géométrie algébrique. 899
Superficie abeliane impure. 899
Conforto, F., e Gherardelli, F.
Classificazione delle superficie ellittiche. 681
Connor, W. S. (Cf. Bose, R. C.)
Symmetrical group divisible designs. 442
Conolly, B. W.
"Faltung" formula. 373
Conrad, P. E.
Embedding theorems for abelian groups. 842
Consael, R.
Processus de Poisson. 293
Consiglio, A.
Rappresentazione conforme di un piano con foro. 367
Conte, L.
Riccati e l'equazione cubica. 344
Vincenzo Viviani e medie proporzionali. 525
Le quattro regole di W. Purser. 833
Conti, R.
Problema iniziale per $z_x^{(i)} = f^{(i)}(x, y; z^{(1)}, \cdots, z^{(k)}; z^{(i)})$. I. 172
Equazione di tipo misto della dinamica dei gas. 178
Equazione di Liénard generalizzata. 558
Equazione integrale traducente un problema ai limiti. 755
Conway, H. D. (Cf. Huang, M. K.)
Orthotropic plane stress. 700
Stress distributions induced by concentrated loads. 1035
Conway, H. D., and Huang, M. K.
Bending of uniformly loaded sectorial plates. 1144
Cook, J. M.
Mathematics of second quantization. 825
Cooke, J. C. (Cf. Sowerby, L.)
Pohlhausen's method and a swirl problem. 104
Legendre functions. 642
Cooke, R. G.
Banach-Hausdorff limits. 1093
Coolidge, J. L.
Lengths of curves. 523
Coon, G. A., and Bernstein, D. L.
Double Laplace transformation. 639
Cooper, E. P.
*Conformal mapping and flow at a free surface. 594
Cooperman, P.
Bounds on solutions of boundary value problems. 559
Multiplier rule for differential equations. 662
Copernicus, N.
*On the revolutions of the heavenly spheres. 832
Copson, E. T.
Sound waves of finite amplitude. 816
Corbeiller, P. Le. See Le Corbeiller, P.
Corben, H. C.
Reformulation of field theory. 228
Current density in quantum electrodynamics. 520
Cordes, H. O.
Separation der Variablen in Hilbertschen Räumen. 1096
Corinaldesi, E., and Trainor, L.
Evaluation of integrals from atomic scattering. 455
Corio, A.
Sezioni piane per un punto di una superficie aventi ivi un cerchio iperosculatore. 85
Corrington, M. S.
Two definite integrals. 872
Corrsin, S.
Heat transfer in isotropic turbulence. 106
Isotropic temperature fluctuations. 328
Coşniţa, C.
Courbes et surfaces anallagmatiques. 85
Cossu, A.
Trasformazioni tra spazi proiettivi. 86
Spazi a rette caratteristiche coincidenti. 313
Costa, A. Almeida. See Almeida Costa, A.
Costa, M. A. Fernandes. See Fernandes Costa.
Costa de Beauregard, O.
Problème quantique et classique de l'irréversibilité. 606
Théorie du photon de de Broglie et l'électromagnétisme quantique de Schwinger. 1046
Costabel, P.
Mécanique dans l'Encyclopédie. 831
Costello, G. R., Cummings, R. L., and Sinnette, J. T., Jr.
Computational procedure for cascade blades. 220
Cotlar, M.
*Foundations of ergodic theory. 566
Cotter, J. R.
Conduction of heat in monatomic gas. 521
Couchet, G.
Mouvements plans non stationnaires d'un profil à pointe. 104
Profil animé d'un mouvement quelconque. 600
Force vive d'un fluide et efforts sur un profil. 919
Couffignal, L.
*Les machines à penser. 1021
Coulson, C. A.
*Spirit of applied mathematics. 835
Courant, R.
*Flow patterns and conformal mapping. 632
Courant, R., Isaacson, E., and Rees, M.
Solution of nonlinear hyperbolic differential equations. 756
Court, N. A.
Isogonal conjugate points for a triangle. 194
Isogonal points for a tetrahedron. 194
*College geometry. 307
Orthological triangles. 493
Tétraèdres orthologiques. 493
Semi-orthocentric tetrahedron. 895
Coutoumanos, A.
Rectilinear congruences. 1120
Coutrez, R. See Gillis, P. P.
Cowling, T. G.
Numerical integration of boundary layer equations. 1130
Cowling, V. F.
Functions defined by Taylor and Newton series. 153
Cowling, V. F., and Piranian, G.
Summability of Dirichlet series. 266
Cox, D. R.
Sequential estimation of means. 190
Estimation by double sampling. 487
Systematic experimental designs. 570
Cox, D. R., and Smith, W. L.
Superposition of periodic sequences of events. 1105
Cox, R. T.
Brownian motion in irreversible processes. 522
Coxeter, H. S. M.
Rouse Ball's notes on three fours. 136
Interlocked rings of spheres. 494
Coxeter, H. S. M., and Todd, J. A.
An extreme duodenary form. 1066
Craggs, J. W. (Cf. Mitchell, A. R.)
Penetration of elastic-plastic plate. 431
Craig, C. C.
Contingency tables. 776
Craig, H. V.
Multiple parameter Jacobian extensors. 689
Craig, H. V., and Townsend, B. B.
Metric extensors. 1016

Craig, R. A. See Haurwitz, B.
Craig, W.
Axiomatizability within a system. 1051
Craig, W., and Quine, W. V.
Reduction to a symmetric relation. 233
Cramlet, C. M.
Modular invariants and resistance networks. 338
Crandall, S. H.
Stability criterion for partial difference equations. 908
Crank, J.
Diffusion and reversible chemical reaction. 173
Craven, T. L.
Logic and the circuit designer. 1044
Crespo Pereira, R.
G. Cantor. 609
L. Kronecker. 609
Augustin de Pedrayes. 609
Pedrayes' problem. 609
Th. Skolem. 610
Crispin, J. W. See Siegel, K. M.
Crocco, L.
Transformations of hodograph equation and generalized potential functions. 1032
Croisot, R. (Cf. Dubreil-Jacotin, L.)
Complexes forts et symétriques des demi-groupes. 842
Cronheim, A.
Hessenberg's theorem. 786
Crookshanks, R. See Lapin, E.
Cros, F. Teissier du. See Teissier du Cros, F.
Cruickshank, D. W. J.
Fourier and least-squares methods of structure determination. 503
Csada, I. K.
Turbulence in ionized gases. 107
Csonka, P.
Plastische Knickung. 602
Elastische Kreiszylinderschale. 817
Grundgleichungen der Elastizitätstheorie. 924
Čudakov, N. G.
Independence of values of exponential function. 957
Čudakov, N. G., and Rodosskiĭ, K. A.
Dirichlet's L-functions. 249
von Cues, Nikolaus.
*Die mathematischen Schriften. 1
Cuesta, N.
Projective structures. 196
Complex involutory correlation. 895
Cugiani, M. (Cf. Albertoni, S.)
Funzioni simmetriche di sistemi di interi. 20
Rappresentazione degli interi come somme. 356
Frazioni continue. 846
Funzioni simmetriche delle radici dell'unità. 951
Cummings, R. L. See Costello, G. R.
Cundy, H.
25-point geometry. 308
"Deltahedra." 493
Cundy, H. M., and Rollett, A. P.
*Mathematical models. 194
Čunihin, S. A.
Π-properties of finite groups. 131
Subgroups of a finite group. 350
Curie, G. Ayrault-. See Ayrault-Curie, G.
Curkov, I. S. See Stepanov, R. D.
Curry, H. B.
Théorie des combinateurs. 4
Logique combinatoire et les antinomies. 4
Definition of negation in inferential calculus. 122
Elimination theorem when modality is present. 527
Classical inferential calculus. 527
Mathematics, syntactics and logic. 936
Curtis, A. R.
Numerical method for design of aerofoils. 216
Curtis, C. W.
Additive ideal theory in general rings. 127
Noncommutative polynomials. 840
Curtis, M. L.
Deformation-free continua. 1002
Cydzik, P. V.
Vibrations of nearly rectangular plates. 52
Cypkin, M. E. See Norden, A. P.

Dacev, A. B.
Appearance of a phase in problem of Stefan. 560
Dahlquist, G.
Analytic continuation of Eulerian products. 151
Daĭovitch, M. Ylitch-. See Ylitch-Daĭovitch, M.
Daĭovitch, V.
Existence des valeurs limites. 151
Dalenius, T.
Theorie des geschichteten Stichprobenverfahrens. 191
Optimum stratification in a design. 489
Dalenius, T., and Gurney, M.
Optimum stratification. II. 64
Dalkey, N.
*Information patterns and determinate games. 891
Dalla Volta, V.
Superficie di S_n. 1121
Damkoehler, G.
*Definiteness and reversibility in calculus of variations. 661
Daniels, H. E.
Statistical theory of stiff chains. 295
Danielsson, G.
*Inequality for circumscribed and inscribed spheres of a tetrahedron. 785
Danilevsky, J. A. Lappo-. See Lappo-Danilevsky.
Danskin, J. M., Jr.
Parametric double integral problems of calculus of variations. 292
Dresner's inequality. 1067
Dantu.
Contraintes en élasticité plane. 1143
van Dantzig, D. See Gillis, P. P.
Dänzer, H.
Elektrische und akustische Einschwingvorgänge. 433
Darling, D. A. (Cf. Anderson, T. W.)
Addition of independent random variables. 60
Test for homogeneity. 298
Darlington, S.
Network synthesis using Tchebycheff polynomial series. 434
Darwin, C.
Note on hydrodynamics. 1027
Das, A. C.
Estimation of parameters in a recursive system. 66
Minimum-variance unbiassed estimates. 1103
Das, Sisir Chandra. See Chandra Das.
das Bagchi, Hari. See Bagchi.
Das Gupta, Sushil Chandra.
Love waves in homogeneous crust. 517
Transverse vibration of a wooden plate. 601
Datta Majumdar, Sudhansu.
Three body problem in quantum mechanics. 227
Datzeff, A. See Dacev, A.
Davenport, H. (Cf. Bambah, R. P.)
Covering of space by spheres. 75
Result of Chalk. 252
*The higher arithmetic. An introduction to the theory of numbers. 352
Simultaneous Diophantine approximation. 956
Davenport, H., and Erdös, P.
Quadratic and higher residues. 1063

David, F. N., and Johnson, N. L.
Analysis of variance tests. 488
Truncated Poisson. 665
David, H. A.
Relations between moments and cumulants. 486
Upper 5 and 1% points of maximum F-ratio. 568
Davidenko, D. F.
Numerical solution of nonlinear equations. 906
Davidoff, M. D., and Goheen, H. W.
Tetrachoric correlation coefficient. 995
Davies, E. T.
Invariant theory of contact transformations. 1122
Davies, H. J.
Flow of compressible fluid around a corner. 1033
Davies, R. O.
Subsets of finite measure in analytic sets. 733
Davies, T. V.
*Symmetrical finite amplitude gravity waves. 811
Davis, A. C.
Equation $\xi^n = \alpha$ pour des types d'ordre. 361
Davis, A. C., et Sierpiński, W.
Types d'ordre dont les carrés sont égaux. 361
Davis, C.
Estimating eigenvalues. 659
Intersection of a linear subspace with positive orthant. 1055
Davis, J. L.
Nonexistence of four confluent shock waves. 1033
Davis, L. L. See Harshbarger, B.
Davis, Martin.
Arithmetical problems and recursively enumerable predicates. 1052
Davis, M. S.
General planetary theory. 802
Davis, P.
Numerical approximation for analytic functions. 907
Davis, R. B.
Third-order linear partial differential equations. 382
Davis, R. C.
Prediction of stochastic processes. 295
Davis, R. L.
Structures of finite relations. 1053
Davy, J. W. R.
Bernoulli numbers and the zeta function. 248
Davy, N., and Langton, N. H.
Magnetic field of a thick semi-infinite plate. 1044
de Albuquerque, J. Ribeiro. See Ribeiro de Albuquerque, J.
Dean, W. R.
Green's function of elastic plate. 818
Slow motion of viscous liquid. 1139
Deaux, R.
Deux complexes quadratiques. 1007
Obituary: M. Deweck (1904–1953). 1050
DeBaggis, H. F.
Dynamical systems with stable structures. 557
de Beauregard, O. Costa. See Costa de Beauregard.
de Boer, J. H. See Boer.
de Bremond, A. Plans Sanz. See Plans Sanz de Bremond.
Debreu, G.
Definite and semidefinite quadratic forms. 125
Social equilibrium existence theorem. 301
de Broglie, L. See Broglie.
de Bruijn, N. G. See Bruijn.
Debrunner, H.
Translative Zerlegungsgleichheit von Würfeln. 1115
de Bye, J. A. W. van der Does. See Does.
De Castro, A. See Castro Brzezicki.
de Castro, G. See Castro.
de Castro Brzezicki, A. See Castro Brzezicki.
De Cicco, J. See Kasner, E.
Dedecker, P.
Théorème de la circulation de V. Bjerknes. 695
Structures locales. 1004
Dedò, M.
Trasformazione analitica di De Jonquières. 312
De Donder, T.
Méthode d'intégration d'Hadamard. 52
Liaisons de solidité en relativité générale. 416
Equations électromagnétiques de Maxwell. 433
Calcul des variations et les espèces et variétés. XII. 1000
de Fériet, J. Kampé. See Kampé de Fériet, J.
De Giorgi, E.
Funzioni assolutamente integrabili. 257
Estremo inferiore di un funzionale. 291
de Groot, J. See Groot.
de Groot, S. R. See Groot.
Deheuvels, R.
Anneau différentiel à filtration réelle. I, II. 492
Invariants topologiques d'une fonctionnelle. 492
Calcul des variations et cohomologie singulière. 492
Points critiques d'une fonctionnelle. 1109
Deicke, A.
Finsler-Räume mit $A_4 = 0$. 1017
de Kármán, T. See Kármán.
Dekker, J. C. E.
Maximal dual ideals in Boolean algebras. 838
de la Cinta Badillo, M^a. See Cinta.
de la Garza, A. See Garza.
de la Marre, P. Huard. See Huard de la Marre, P.
Delange, H.
Fonctions entières à zéros réels et négatifs. 32
Calcul approché des intégrales définies. 254
Théorème taubérien de Littlewood. 634
de la Ripelle, M. Fabre. See Fabre de la Ripelle.
Delavault, H.
Théorie de la chaleur. 1090
Delcourte, M.
Résidus quadratiques des nombres premiers. 248
Delerue, P.
Généralisation des polynomes d'Abel-Laguerre. 167
Calcul symbolique à trois ou n variables. 372
Calcul symbolique et fonctions hyperbesséliennes. 1082
Delone, B. N.
*Asymptotic formulas in Galois theory. 1058
De Lorenzo, G.
Influsso di Galileo e di Kepler su Hobbes e Kant. 343
de Mira Fernandes, A. See Mira Fernandes.
den Dungen, F. H. van. See Dungen.
Dénes, P.
Letzter Fermat'scher Satz. 451
Conjecture of Kummer. 728
Dengler, M. A., and Goland, M.
*Transverse impact of long beams. 820
Denis-Papin, M., et Kaufmann, A.
*Cours de calcul matriciel appliqué. 235
*Cours de calcul tensoriel appliqué. 798
Denjoy, A.
Addition conventionnelle et figurée des permutations. 26
Suites finies d'entiers positifs. 26
Nombre ordinal non préconçu. 26
Figuration arithmétique des permutations clivées. 26
Suites canoniques. I, II, III. 26
Nodales des suites régulières. 255
Les dérivées. 456
Ordination des ensembles. 1069
Dennis, K. E. See Barton, D. E.
Dennis, S. C. R. See Allen, D. N. de G.
de Oliveira, J. Tiago. See Tiago de Oliveira.
Depman, I. Ya.
Pedagogical activity of Ostrogradskiĭ. 525
de Possel, R. See Possel.

Deppermann, K. See Franz, W.
der Blij, F. van. See Blij.
der Does de Bye, J. A. W. van. See Does.
de Rham, G. See Rham.
der Heiden, J. A. van. See Heiden.
der Kulk, W. van. See Kulk.
der Vaart, H. R. van. See Vaart.
der Waag, E. J. van. See Waag.
der Waerden, B. L. van. See Waerden.
de Schwarz, M. J. See Schwarz.
Descombes, R.
Approximation non homogène. 851
Théorème classique d'Hurwitz. 851
De Simoni, F.
Teoria della plasticità. 1041
De Sloovere, H.
Nombre d'invariants distincts. II, III. 84, 205
Stabilité des lois de la relativité restreinte. 416
Stabilité des lois de la mécanique ondulatoire. 1045
Stabilité des lois électromagnétiques. 1150
de Souza, J. E. Rios. See Rios de Souza, J. E.
Des Raj.
Estimating parameters of normal populations. 569
Bessel function population. 775
Parameters of type III populations. 1103
Destouches, J.-L.
*Méthodologie. Notions géométriques. 1042
Destouches-Aeschlimann, F.
Dérivée et différentielle totale d'un opérateur. 606
Intégrales opératorielles et mécanique ondulatoire. 829
Detoeuf, J.-F. See Maignan, P.
Deuring, M.
Elliptische Funktionenkörper und die Klassenkörper der imaginären quadratischen Zahlkörper. 356
Deverall, L. I., and Thorne, C. J.
Bending of thin ring-sector plates. 1144
Devidé, V.
Transformationen isomorpher algebraischer Operationen. 10
Einige Sätze der Vektorrechnung. 145
Devinatz, A.
Representations of positive definite functions. 659
de Vooren, A. I. van. See Vooren.
de Vooren-van Veen, J. F. van. See Vooren-van Veen.
DeWitt, B. S., and DeWitt, C. M.
Quantum theory of interacting gravitational and spinor fields. 230
DeWitt, C. M. See DeWitt, B. S.
Diananda, P. H.
Probability limit theorems. 771
Dias Agudo, F. R.
Theorem of Kakeya. 640
Diaz, J. B.
*Estimation of torsional rigidity. 980
Bounds for quadratic functionals. 1084
Diaz, J. B., and Martin, M. H.
Riemann's method and problem of Cauchy. II. 176
Diaz, J. B., and Roberts, R. C.
Dirichlet difference boundary-value problem. 503
Diaz, J. Gallego-. See Gallego-Diaz.
Díaz, J. Mañas. See Mañas Díaz, J.
Díaz, R. Sánchez-. See Sánchez-Díaz, R.
Dickinson, A.
Compactness conditions and uniform structures. 1107
Dienemann, W.
Wärmeübergang an laminar umströmten Körpern. 1140
Dienes, Z. P.
Definizione dei gradi di rigore. 714
Dietz, H.
Binäre projektive Gruppe über einem Galoisfeld. 133
Dieudonné, J.
Structure of unitary groups. 134
Dieudonné, J. (Continued)
Extensions quadratiques des corps non commutatifs. 239
Logic and mathematics. 715
Groupes de Lie algébriques. 1062
Théorème de Smulian. 1093
di Francia, G. Toraldo. See Toraldo di Francia, G.
Dijkman, J. G.
*Convergence and divergence in intuitionistic mathematics. 441
Dijksterhuis, E. J.
*Christiaan Huygens. 343
Christiaan Huygens. 1050
Dike, S. H.
Hallén integral equation. 604
Dilgan, H.
Vitesse moyenne des planètes. 802
Dilworth, R. P., and McLaughlin, J. E.
Distributivity in lattices. 717
DiMaggio, F. See Salvadori, M. G.
Dimić, P.
Formule d'interpolation de Lagrange. 871
Dinesh Chandra.
Whittaker transform. 555
Dinghas, A.
Identitäten vom Bernsteinschen Typus. 167
Racines des équations algébriques. 952
Dingle, R. B.
Magnetic properties of metals. V. 503
Schrödinger equation for finite systems. 756
Diophantos.
*Arithmetik des Diophantos aus Alexandria. 1
Dirac, G. A.
Ovals with equichordal points. 309
Connectivity theorems for graphs. 394
Map-colour theorems. 394
Dirac, P. A. M.
New classical theory of electrons. II. 228
Dive, P.
Stratification ellipsoidale dans un fluide. 94
Dixmier, J. (Cf. Cartan, H.)
Théorème d'Harish-Chandra. 12
Espaces considérés par M. H. Stone. 69
Anneaux d'opérateurs. 481
Applications ♮. 660
Algèbres quasi-unitaires. 660
Doak, P. E.
Reflexion of spherical acoustic pulse. 512
Dobrescu, A.
Classification of Lie groups. 1062
Dobronravov, V. V.
Motion about a fixed point. 420
Nonholonomic coordinates for mechanics of continuous media. 592
Mechanics of nonholonomic systems. 593
Dobrovol'skiĭ, V. V.
Generation of a curve accompanying a given one. 324
Dobrušin, R. L.
Regularity of stationary Markov processes. 567
Doe, A. G. See Tasny-Tschiassny, L.
van der Does de Bye, J. A. W., and Schenk, J.
Heat transfer in laminar flow. 332
Doesschate, G. Ten. See Ten Doesschate.
Doetsch, G.
*Unsolved problems of the Laplace transform. 555
Asymptotic developments and Laplace transform. 977
Dolapčiev, B. See Dolaptschijew, B.
Dolaptschijew, B.
Gleichgewichtszustand der zweiparametrigen Wirbelstrassen. 422
Stabilitätsuntersuchung beliebig geordneter Wirbelstrassen. 423

Dolbeault, P.
Cohomologie des variétés analytiques complexes. I, II. 673
*Formes différentielles méromorphes sur les variétés kählériennes compactes. 797
Dolgolenko, Yu. V.
Stability of automatic discontinuous regulation. 648
Dolidze, D. E.
Unsteady linear boundary problem of hydrodynamics. 696
Dolph, C. L., and Woodbury, M. A.
Green's functions and covariances of stochastic processes. 295
Domb, C.
Random parameter in combinatorial problems. 186
Tables of functions occurring in diffraction. 691
Domínguez, A. González. See González Domínguez, A.
Domizlaff, H. See Tornier, E.
Donder, T. De. See De Donder.
Donoghue, W. F., Jr., and Smith, K. T.
Locally convex spaces. 182
Donth, H. See Seeger, A.
Dorfman, L. A.
Irrotational flow about grids. 919
d'Orgeval, B. See Orgeval.
Dorodnicyn, A. A.
Characteristic values of differential equations of second order. 876
Dörr, J.
Zwei Integralgleichungen aus der Tragflügeltheorie. 54
Zwei Integralgleichungen erster Art. 562
Integrale mit Bessel-Funktionen. 872
dos Reis, M. See Reis.
Dougall, J.
Double six of lines. 399
Douglas, J.
Basis theorem for finite abelian groups. IV. 1058
Douglis, A.
Existence theorems for hyperbolic partial differential equations. 655
Dowker, C. H.
Theorem of Hanner. 396
Dowker, Y. N.
Mean and transitive points of homeomorphisms. 1003
Drăganu, M.
Problems with oblique derivatives. 175
Dragilev, A. V.
Differential equation of nonlinear oscillations. 377
Dragonette, L. A.
Mock theta series of Ramanujan. 248
Dragoni, G. Scorza. See Scorza Dragoni, G.
Drahlin, E.
Heat convection. 217
Drandell, M.
Generalized convex sets. 309
Draper, J.
Transformations of the normal distribution. 569
Drazin, M. P.
Sequences of integers. 450
Drazin, M. P., and Griffith, J. S.
Decimal representation of integers. 253
Dreben, B.
Completeness of quantification theory. 526
Dresher, M.
Moment spaces and inequalities. 1067
Dresher, M., and Karlin, S.
*Solutions of convex games as fixed-points. 779
Dressel, F. G. See Gergen, J. J.
Dressler, R. F., and Pohle, F. V.
Hydraulic instability. 1028
Drion, E. F.
Tests for difference between distribution functions. 488
Drobot, S.
Scientific work of M. T. Huber. 1050
Drougge, G.
Flow around conical tips. 109
Drucker, D. C. (Cf. Onat, E. T.)
*Plastic stress-strain relations. 929
Drucker, D. C., Greenberg, H. J., and Prager, W.
Elastic-plastic body in plane strain. 431
Drucker, D. C., Greenberg, H. J., Lee, E. H., and Prager, W.
*Plastic-rigid solutions and limit design theorems. 930
Duarte, F. J.
Diophantine equation of third degree. 354
Duban, P.
Solution graphique des écoulements supersoniques. I, II. 511
Duberg, J. E., and Wilder, T. W., III.
Inelastic column behavior. 702
Dubnov, Ya. S.
Diagonal properties of nets. 1014
Dubois, Fr.
Nouveaux appareils pour opérations mathématiques. 909
Dubošin, G. N.
*Foundations of the theory of stability of motion. 471
Stability problem for constantly acting disturbances. 471
Second method of Lyapunov. 752
Dubreil, P.
Théorie des demi-groupes. II. 12
Dubreil-Jacotin, L., et Croisot, R.
Equivalences régulières dans un ensemble ordonné. 529
Dubreil-Jacotin, M.-L.
Transformations de Reynolds. 839
Dubrovskiĭ, V. M.
Formula of Nikodým. 456
Dubyago, A. D.
*Lobačevskiĭ's trip to Penza. 833
du Cros, F. Teissier. See Teissier du Cros, F.
Duff, G. F. D.
Limit-cycles and rotated vector fields. 751
Harmonic p-tensors on Riemannian spaces. 903
Boundary value problems associated with tensor Laplace equation. 903
Duffin, R. J.
Simple unitary transformations. 163
Nodal lines of vibrating plate. 601
Dufresne, P.
Problèmes de dépouillements. II, III, IV, V. 1098
Dufresnoy, J., et Pisot, C.
Ensemble fermé d'entiers algébriques. 538
Solution d'un problème de Siegel. 538
Dugas, R.
*Histoire de la mécanique. 341
Dugué, D.
Fonctions fuchsiennes et familles normales. 33
Fonctions elliptiques. 33
Théorème de Picard global. 741
Dugundji, J.
CW polytopes. 74
Dumas, M.
Résultats blancs et noirs. 1102
Duncan, D. G.
Littlewood's algebra of S-functions. 443
Duncan, W. J.
Generalization of Rayleigh's principle. 209
Solution of differential equations by impulsive admittances. 874
Dunford, N.
Spectral theory. II. 479
van den Dungen, F. H.
Intégration numérique de l'équation des ondes. I, II. 93, 693
Sur un variant intégral associé à l'équation des ondes. 176
Équations hyperboliques linéaires. 176
Principe de Rayleigh et regula falsi de Newton. 412
Intégration numérique des équations hyperboliques. 588

Dunn, D. W., and Lin, C. C.
Stability of supersonic boundary layers. 1141
Dunne, J. See Otter, R.
Duparc, H. J. A. (Cf. Peremans, W.)
Carmichael numbers. 21
Canonical forms. 717
Duparc, H. J. A., and Peremans, W.
Observation on rapport ZW 1949-001. 716
Sequences of integers and pseudo-random numbers. 770
Duparc, H. J. A., Lekkerkerker, C. G., and Peremans, W.
Formula of Jensen. 858
du Plessis, N. See Plessis.
Durand, D. See Gumbel, E. J.
Durand, E.
Trajectoire électronique par dérivations successives. 603
Dürbaum, H.
Ganzheitsbereiche bewerteter Körper. 530
Nichtkommutative Bewertungen. 944
Dürr, K.
*The propositional logic of Boethius. 524
Durst, L. K.
Equianharmonic divisibility sequences. 139
Dutka, J.
Spinoza and the theory of probability. 833
Dutta, M.
Equation of state of real gases. 231
Du Val, P.
Algebraic loci with hyperelliptic curve sections. 579
Regular surfaces of genus two. I. 898
Dvoretzky, A., Kiefer, J., and Wolfowitz, J.
Inventory problem. II. 301
Sequential decision problems for processes with continuous time parameter. 997
Dwass, M.
Asymptotic normality of rank order statistics. 1102
Dye, H. A.
Finite rings of operators. 659
Dyer, H. P. F. Swinnerton-. See Swinnerton-Dyer.
Dyhman, E. I.
Reduction principle. 751
Some stability theorems. 752
Dyke, M. D. Van. See Van Dyke, M. D.
Dynkin, E. B.
Linear representations of the unitary group. 244
Maximal subgroups of the classical groups. 244
Homologies of a compact Lie group. 620
Trajectories of a Markov random process. 567
Equivalent random quantities. 1098
Dynkin, E. B., and Uspenskiĭ, V. A.
*Mathematical conversations. Map coloring problems. Problems from number theory. Random walks. 455
Dyubyuk, P. E.
Finite p-groups. 131
Džanelidze, G. Yu. See Bellin, E. A.
Džavadov, M. A.
Conformal transformations in Euclidean and pseudo-Euclidean spaces. 498
Džrbašyan, M. M.
Integral representation and uniqueness of entire functions. 33
Uniqueness and representation theorems for analytic functions. 33
Best approximation by polynomials. 164
Džvaršeĭšvili, A. G.
Double integral of Denjoy-Čelidze. 28
Integration and differentiation under Denjoy integral sign. 628
Sequence of Denjoy integrals. 628
Representation by singular integrals of Denjoy-Perron integrable functions. 635
Convergence of a Fourier series. 635
Džvaršeĭšvili, A. G. (Continued)
Approximation of a function of two variables. 975
Summation of double trigonometric series. 975
Fourier-Denjoy series. 1080
Dzyadyk, V. K.
Best approximation in a class of periodic functions. 867

Eckart, C.
*Propagation of gravity waves from deep to shallow water. 918
Noise in continuous media. 923
Scattering of sound from sea surface. 1142
Eckart, G.
Ondes acoustiques dans milieu stratifié. 924
Eckart, G., et Liénard, P.
Impédances caractéristiques électrique et acoustique. 822
Eckel, K.
Störungskoeffizienten der ballistischen Störungsrechnung. 325
Edelman, F.
*Plasticity solutions obtained with incremental and deformation theories. 1041
Edelstein, M.
Contact between sets of points. 854
Eder, G.
Marchsche Theorie einer universellen Länge. 230
Edmonds, S. M.
Parseval formulae for monotonic functions. IV. 1081
Edmundson, H. P.
Monte Carlo matrix inversion. 1018
Edrei, A.
Mappings which do not increase small distances. 305
Totally positive sequences. II. 732
Generating function of totally positive sequence. 732
Doubly infinite, totally positive sequence. 853
Edrei, A., and Szegö, G.
Reciprocal of a Fourier series. 745
Edwards, R. E.
Weak convergence of functions. 183
Translations of holomorphic function. II. 287
Functions whose translates are independent. 371
Radon measures on locally compact spaces. 963
Efimov, N. V.
Rigidity and nondeformability. 686
Efremovič, V. A.
Geometry of proximity. I. 1106
Egerváry, J., and Turán, P.
Kinetic theory of gases. 438
Eggleston, H. G.
Sets of fractional dimensions in number theory. 23
Blaschke's theorem on Reuleaux triangle. 496
Closest packing by equilateral triangles. 679
Remarks on uniform convergence. 736
Triangles as extremal convex curves. 896
Triangles circumscribing plane convex sets. 896
Eggleston, H. G., and Taylor, S. J.
Equilateral triangles inscribed in curves of constant width. 401
Egloff, W.
Kugelverbiegungen und Eigenwertaufgabe der Potentialtheorie. 470
Egorov, D.
Statement on Luzin's dissertation. 1051
Egorov, I. P.
Collineation of projectively connected spaces. 208
Maximally mobile L_n with a semi-symmetric connection. 318
A_n of nonzero curvature with maximum mobility. 318
Ehrenberg, A. S. C.
Sampling from a population of rankers. 64
Ehrich, F. F.
Jets oblique to a stream. 695
Eichelbrenner, E. A. See Bouniol, F.

Eichhorn, H.
Genauigkeit einer Kreisbahnbestimmung. 802
Eichler, M.
Differentialgleichungen vom hyperbolischen Typ. 281
Idealtheorie der quadratischen Formen. 540
Ähnlichkeitsklassen indefiniter Gitter. 540
Quadratische Formen und orthogonale Gruppen. 540
Theorie der Kristallgitter. 851
Êĭdus, D. M.
Solution of boundary problems by finite differences. 379
Dependence of characteristic functions on the region. 380
Eilenberg, S., and MacLane, S.
Acyclic models. 670
Eilenberg, S., and Steenrod, N.
*Foundations of algebraic topology. 398
Eilenberg, S., and Zilber, J. A.
Products of complexes. 670
Einstein, A.
*The meaning of relativity. 3rd ed. 97
A comment on a criticism of unified field theory. 591
*The meaning of relativity. 4th ed. 805
*Sur le problème cosmologique. Théorie de la gravitation généralisée. 805
Eisenhart, L. P.
Generalized Riemann spaces. II. 317
Generalized Riemann spaces and general relativity. 1123
Ekstein, H.
Multiple scattering and radiation damping. II. 828
Ekstein, M. G. See Parrish, W.
Elbert, D. See Chandrasekhar, S.
Elenevskaya, N. B.
Expansion of perturbation function in Fourier series. I. 415
Elfving, G.
Decision function theory. 998
Eliassen, A.
Meridional circulation in a vortex. 110
Quasi-static equations of motion. 512
Eljoseph, N.
Arithmetic of dynames. 848
Elliott, H. M. (Cf. Walsh, J. L.)
Approximation to analytic functions. 858
Elliott, J. G.
Autometrization and the symmetric difference. 1056
Elliott, Joanne.
Class of integral equations. 180
Ellis, D.
Separable metric spaces. 191
Correction: "Abstract distance geometry, II." 197
Inclusion in partially ordered sets. 307
Abstract distance geometry. III. 576
Metric representations of groups. 843
Remarks on isotopies. 945
Ellis, H. W.
P^2-integral and Cesàro-Perron scale of integrals. 628
Ellis, J. W.
General set-separation theorem. 146
el-Nadi, M. See Nadi.
Êl'sgol'c, L. Ê.
Differential equations with retarded argument. 323
*The calculus of variations. 482
Emanuele, M. A.
Trigonometria secondo Bolyai. 832
Emersleben, O.
Die Reihe $\sum k(k^2+c^2)^{-2}$. 369
Emmons, H. W.
Laminar-turbulent transition. 697
Enatsu, H. See Yamazaki, K.
Enomoto, S.
Lattice-theoretic treatment of measures and integrals. 27
Completely additive classes of sets. 544
Epheser, H., und Stallmann, F.
Konforme Abbildung eines Parallelstreifens mit Halbkreiskerbe. 742
Epstein, S. T.
Causal interpretation of quantum mechanics. 519
Erdélyi, A. (Cf. Weber, M.)
Hypergeometric series of two variables. 270
Erdös, Paul. (Cf. de Bruijn, N. G.; Davenport, H.)
Tauberian theorem for Euler summability. 265
Conjecture of Hammersley. 726
Erdös, P., and Mirsky, L.
Divisor function $d(n)$. 249
Erdös, P., and Rogers, C. A.
Covering of n-dimensional space by spheres. 1066
Erdös, Paul.
Kleine Schwingungen dynamischer Systeme. 1136
Eremeev, N. V.
Mechanisms of variable structure. 420
Nomographic mechanism. 592
Ericksen, J. L.
Uniqueness of gas flows. 107
Thin liquid jets. 508
Waves in elastic materials. 1147
Eringen, A. C.
*Bending and buckling of sandwich plates. 928
Non-linear vibration of circular membrane. 928
Erismann, T.
Appareils mécaniques d'intégration. 694
Ernst, L. Locher-. See Locher-Ernst, L.
Errera, A.
Suite sans répétitions. 442
Probleme des quatre couleurs. 571
Eršov, B. A.
Stability of automatic regulation. 752
Ertel, H.
Asynchron-periodische Wirbelbewegungen kompressibler Flüssigkeiten. 508
Clebsch-Transformation der hydrodynamischen Gleichungen. 809
Erugin, N. P.
Theorems on instability. 376
Stability of automatic regulation. 376
Differential equations having a given integral curve. 471
Erwe, F.
Schlichtheitsschranken gewisser Funktionenfamilien. 260
Lücken bei Laurentreihen. 858
Escardó, E. Linés. See Linés Escardó.
van Est, W. T.
Dense imbeddings of Lie groups. II. 135
(CA) Lie algebras. I, II. 720
Theorem of Anna Mullikin. 894
van Est, W. T., and Overbeek, J. Th. G.
Electrokinetic effects in network of capillaries. I, II. 434
Esteban Carrasco, L.
Third derivative of polygenic function. 972
Estill, M. E.
Primitive dispersion set of the plane. 71
Problem of Souslin's. 396
Eubanks, R. A. See Sternberg, E.
Euclid.
*Elements. Books I–VI, VII–X, XI–XV. 524
*The thirteen books of Euclid's Elements. 524
Evans, A.
Complex variable methods for Tauberian theorems. 551
Evans, G. C.
Multiple-valued harmonic functions. 45
Evans, R. L.
Linear ordinary differential equations. 645
Evans, T.
Multiplicative systems and projective geometries. 347
Embeddability and the word problem. 839

Evgrafov, M. A.
Inverse of Abel's theorem for series having gaps. 552
Power series for functions of class H_λ. 552
Ewing, G. M. See Brunk, H. D.
Ewing, G. M., and Utz, W. R.
Functional equation $f^n(x) = f(x)$. 987
Eyraud, H.
Théorème du continu. 146
Continu de seconde classe. 255
Fonctions monotones asymptotiquement nulles. 255

Fabre de la Ripelle, M.
Équations de perturbation. II. 708
Fabri, J. See de Kármán, T.
Fabricius-Bjerre, F.
Elementary (6, 1)-transformation. 1116
Faddeev, D. K., and Sominskiĭ, I. S.
*Collection of problems on higher algebra. 3d ed. 1055
Faddeeva, V. N.
Computational methods of linear algebra. Chap. I. 412
Fadini, A.
Riemanniana del piano triduale. 402
Fage, M. K.
Rectification of bases in Hilbert space. 184
Symmetry of influence functions. 1088
Fain, B. W.
Evaluation of infinite numerical series. 633
Fales, A. E. See Kufarev, P. P.
Falk, G.
Kanonische Formulierung der Relativitätsmechanik und quantentheoretisches Analogon. 1045
Falk, G., und Marschall, H.
Lösungen der Schrödinger-Gleichung. 117
Falkner, V. M.
Tables of Multhopp and other functions. 411
Solution of lifting-plane problems. 1028
Familier, H.
Théorie de Bode. 519
Fan, Ky.
Tucker's combinatorial lemma. 490
Minimax theorems. 1109
Fan, Ky, and Gottesman, N.
Compactifications of Freudenthal and Wallman. 669
Fantappiè, L.
Grandezze della meccanica quantica. 117
Grandezze fisiche possibili in un universo quantico. 339
Farahat, H.
p-quotients and star diagrams of the symmetric group. I, II. 351, 723
Faran, J. J., Jr.
Scattering of cylindrical waves. 600
Farinha, J.
Two theorems of Pincherle. 464
Fáry, I.
Anneaux spectraux de certaines classes d'applications. I, II, III, IV, V. 784, 1112
Fasoulakes, K. N. See Xeroudakes, G. F.
Fast, H.
Convergence statistique. 29
Singular periodic functions. 267
Fast, H., et Götz, A.
Intégrabilité de la fonction de Crofton. 1116
Fauville, A. See Gillis, P. P.
Favard, J.
Problèmes de couvercles. 309
Favre, H., et Gilg, B.
Plaque rectangulaire fléchie. 925
Fawaz, A. Y.
Problem in analytic theory of numbers. 537
Federer, H.
Measure and area. 149

Federhofer, K.
Behälter mit veränderlicher Wandstärke. 517
Eigenschwingungen der Kreiszylinderschale. 928
Stabilität der Kreiszylinderschale. 928
Fehlberg, E.
Numerische Behandlung des Dirichletschen Problems. 693
Feĭgel'son, E. M.
Radiative properties of clouds St. 212
Fejér, L.
Trigonometrische Polynomen, die mit der Flächenmessung auf der Kugel zusammenhängen. 974
Fejes Tóth, L.
Isoperimetrische Eigenschaft des Ikosaeders. 896
*Dichteste Kugellagerung. 1115
Felker, J. H.
Transistor digital computer. 504
Fell, J. M. G., and Kelley, J. L.
Algebra of unbounded operators. 480
Fell, J. M. G., and Tarski, A.
Algebras whose factor algebras are Boolean. 130
Feller, W.
Marcel Riesz' potentials and semi-groups. 561
Semi-groups of transformations. 881
Two singular diffusion problems. 983
Semi-groups of bounded linear operators. 1093
Positivity-preserving semigroups of transformations. 1094
Fenain, M.
Equations des écoulements des gaz. 1141
Fenchel, W.
Convex sets and polarity. 495
*Generalization of spherical trigonometry. 786
Fenwick, M. See Keller, G.
Fényes, I.
Stochastischer charakter der Ungenauigkeitsrelation. 520
Axiomatische Begründung der Thermodynamik. I. 1047
Fenyö, I.
Klasse von Integralgleichungen. 761
*Nonhomogeneous linear integral equations. 1092
Fériet, J. Kampé de. See Kampé de Fériet, J.
Fernandes, A. de Mira. See Mira Fernandes.
Fernandes Costa, M. A.
Limits of sequences. 973
Fernández, C. Graef. See Graef Fernández, C.
Fernández, G.
Curves on a hypersurface. 903
Fernández Biarge, J.
Circular cubics. 785
Ferrand, J. Lelong-. See Lelong-Ferrand.
Ferrar, W. L.
*Finite matrices. 715
Ferretti, B.
Classe di equazioni operatoriali. 659
Ferri, A.
Supersonic flow around cones. 331
Method of characteristics for supersonic flow. 331
Fet, A. I.
Closed extremals on a manifold. 992
Topological properties and extremals on a manifold. 992
Fettis, H. E.
Integral in theory of wave-guide-fed slots. 455
*Calculation of non-stationary air forces. I, II. 922, 1028
Few, L.
Double packing of spheres. 1115
Feys, R.
*Formalisation comme suggestion rigoureuse. 1052
Fialkow, A., and Gerst, I.
General two terminal-pair RC networks. 116
Fichera, G.
Sulla "Kernel function." 156
Derivata obliqua e problema misto per l'equazione di Laplace. 750

Ficken, F. A.
Uniqueness theorems for parabolic problems. 282
Fiedler, M.
Problem of E. Čech. 577
Fil'čakov, P. F.
Weir with notches of unequal length. 423
Filipowsky, R.
Numerical calculations in engineering. I. 692
Finikov, S. P.
*A course of differential geometry. 791
Finkelsztejn, L., Mikusiński, J. G.-, et Ryll-Nardzewski, C.
Equation intégro-différentielle. 54
Finn, R.
Généralisations du théorème de Picard. 364
Property of minimal surfaces. 885
Finney, D. J.
*Probit analysis. 66
Finzi, A.
Conditions de validité du théorème de Liouville. 374
Génération d'une transformation d'une courbe fermée. 685
Finzi, B.
*Meccanica razionale. Vols. I, II. 325
Discontinuità dei campi elettromagnetici. 519
Fiore, A.
Coniche e polarità piane biduali. 399
Fischer, H. J.
Geometrische Netze und Konfigurationen. I. 785
Fishel, B.
Two papers of Titchmarsh concerning eigenfunction expansions. 558
Fisher, R. A.
Fitting of the negative binomial. 1104
Fitch, E. R. See Hartley, H. O.
Fivel, D. I. See Plass, G. N.
Fjeldstad, J. E. See Brun, V.
Fjørtoft, R.
Numerical method for barotropic vorticity equation. 502
Stability for laminar flows and the baroclinic circular vortex. 815
Flanders, H.
Kronecker's theorem on forms. 22
Theorem of Ankeny and Rogers. 952
Norm function of algebraic field extension. 1065
Flathe, H.
Approximation auf Riemannschen Flächen. 1076
Flax, A. H.
Lifting-surface theory. 218
Reverse-flow theorem. 219
Lifting surfaces in nonstationary flow. 599
Integral relations in wing-body interference. 1141
Fleckenstein, J. O.
Eléments des orbites planétaires. I, II. 211, 1132
Fleischer, I.
Corps topologiques et valuations. 720
Fletcher, H. J., and Thorne, C. J.
Plates on elastic foundation. 222
Fletcher, T. J.
Solution of inferential problems. 123
Finite geometry. 675
Flodin, B.
Variationsprobleme mit Gefällbeschränkung. 661
Flora, M.
Congruences of Guichard. 685
Florek, K., Marczewski, E., and Ryll-Nardzewski, C.
Poisson stochastic process. I. 1100
Floyd, E. E.
Related periodic maps. 304
Flügge, S.
Numerische und graphische Integration von Schwingungsgleichungen. 413
Flügge, S., und Woeste, K.
Atomkern als kompressibler Tropfen. I. 1047
Fock, W. A.
Fresnelsche Beugung an konvexen Körpern. 337
Fodor, G.
Verallgemeinerte Kontinuumhypothese. 853
Fogarty, L. E.
Laminar boundary layer on rotating blade. 328
Fogel, K.-G.
Eigenvalues and eigenphase for Yukawa potential. 606
Wave equation with Yukawa potential. 1087
Fogelis, E.
Axioms of arithmetic. 126
Foix, A.
Solution en coordonnées polaires des équations de Maxwell et ses applications. 432
Fok, V. A. See Fock, W. A.
Foldy, L. L. (Cf. Berger, J. M.)
Electromagnetic properties of Dirac particles. 226
Følner, E.
Two theorems of Pontrjagin. 449
*Deux espaces de dimensions infinies. 658
Fomin, S. V. (Cf. Gel'fand, I. M.)
Basic concepts of linear algebra. 716
Föppl, L.
Mittelwertsatz der ebenen Elastizitätstheorie. 924
Ringschalen mit elliptischen Meridianschnitten. 926
Forbat, N.
Théorème sur formes quadratiques. 443
Forrester, A.
Involutory transformations without fixed points. 72
Forster, H.
Ein Grenzwertsatz. 973
Randwertaufgabe der Differentialgleichung $r^2\partial^2 f/\partial r^2 + r\partial f/\partial r + q^2\partial^2 f/\partial\varphi^2 = r^2 k\partial f/\partial t$. 1092
Forsythe, G. E.
Fox's escalator formulae for latent roots. 92
Fort, T.
Reducibility of differential and difference equations. 750
Fortet, R.
Méthodes de Monte-Carlo en physique. 799
Fortet, R., et Mourier, E.
Loi des grands nombres et théorie ergodique. 387
Convergence de la répartition empirique. 993
Fortunati, P.
Misure statistiche della variabilità. 568
Foster, F. G.
Markov chains with enumerable infinity of states. 295
Markov chain derivation of discrete distributions. 663
Foster, F. G., and Good, I. J.
Pólya's random-walk theorem. 1101
Foulkes, H. O.
Matrix differentiation of S-functions. 716
Fourès, L.
Fonction admettant une fonction d'automorphie donnée. 462
Recouvrements de surfaces de Riemann. 550
Fourès-Bruhat, Y.
Equations aux dérivées partielles non linéaires. 756 2063
Fourgeaud, C.
Probabilité et régression dans espaces de Banach. 662
Fourier, J. B. J.
*Analytical theory of heat. 524
Fournier, G.
Distribution des nombres premiers. 248
Fox, C.
Iterated transforms. 869
Fox, L.
Escalator methods for latent roots. 92
Finite-difference equations. 693
Fox, L., and Goodwin, E. T.
Numerical solution of integral equations. 908

Fox, R. H.
Free differential calculus. I. 843
Fenchel's conjecture about F-groups. 843
Fraenz, K.
*Mathematical problems of electric circuits. 606
v. Fragstein, C.
Reziprozität der Durchlässigkeit für elektromagnetische Wellen. 702
Francesco-Saverio, R.
Coefficienti di Legendre di una funzione limitata. 975
Franchetta, A.
Modelli pluricanonici delle superficie algebriche. 311
Francia, G. Toraldo di. See Toraldo di Francia, G.
Franciosi, V.
Strutture monodimensionali in regime elasto-plastico. 431
Frank, Ernest.
Potential produced by two point current sources. 432
Frank, Evelyn.
Determinantal equations. 6
Certain continued fractions. 635
Frankl', F. I.
Gravitational waves and motion of gases. 98
Boundary problem for $y\partial^2 z/\partial x^2 + \partial^2 z/\partial y^2 = 0$. 654
Franz, W., und Deppermann, K.
Beugung am Zylinder. 518
Fraser, D. A. S.
Sufficient statistics. 297
Confidence bounds for set of means. 775
Nonparametric tolerance regions. 889
Generalized hit probabilities with a Gaussian target. 1098
Fraser, D. A. S., and Guttman, I.
Bhattacharyya bounds without regularity assumptions. 1102
Frazer, R. A.
Possio's subsonic derivative theory. I. 219
Frazer, R. A., and Skan, S. W.
Possio's subsonic derivative theory. II. 219
Fréchet, M. (Cf. Gillis, P. P.)
Tableaux de corrélation. 189
Solutions non commutables de l'équation $e^X \cdot e^Y = e^{X+Y}$. 237
Fonctions analogues à fonctions analytiques. 463
*Pages choisies d'analyse générale. 656
Emile Borel, initiator of theory of games. 667
Three notes of E. Borel. 667
Fonctions paraanalytiques. 865
Frei, M.
Solutions entières d'une équation différentielle. 556
Freire, L.
Gomes Teixeira. 2
Frenkel, J. (Cf. Cartan, H.)
Espaces fibrés analytiques. 573
Frenkiel, F. N.
Statistical theory of turbulent diffusion. 106
*Turbulent diffusion from a non-punctual source. 920
Freud, G.
Restglied eines Tauberschen Satzes. I, II. 361, 958
Summierbarkeit von orthogonalen Polynomreihen. 467
Konvergenz orthogonaler Polynomreihen. 468
Reihentheoretischer Satz von Fejér. 737
Freudenthal, H.
*Introduction to the thinking of Einstein. 2
Foundations of geometry. 5
Produkte symmetrischer und antisymmetrischer Matrizen. 7
Elementarteilertheorie der komplexen orthogonalen und symplektischen Gruppen. 16
Gambling with poor chance of gain. 387
Weak law of large numbers. 387
Enden und Primenden. 893
Invariants caractéristiques des groupes semi-simples. 948
Le groupe exceptionnel E_8. 948
Le groupe exceptionnel E_7. 948
Geschichte der vollständigen Induktion. 1049
Fricke, A.
Nichtlineare Integralgleichung der Zentralbewegung. 383
Fricke, W.
Geschwindigkeitsverteilung im Sternsystem. 96
Fridlender, G. O.
Precession of a gyroscope. 808
Fridlender, V. R.
Linear differential-operator equations. 284
Fridman, M. M.
Bending of a thin isotropic elastic plate. 600
Friedman, B. See Borowitz, S.
Friedman, B., and Russek, J.
Addition theorems for spherical waves. 1084
Friedman, M. B. See Ludloff, H. F.
Friedrichs, K. O.
Asymptotische Beschreibung von Streuprozessen. 827
Frink, O.
Maximal chain theorem. 238
Fritz, N. L.
Analog computers for coordinate transformation. 504
Fröberg, C.-E. (Cf. Goldstein, A. A.)
*Hexadecimal conversion tables. 410
Fröhlich, A.
Class group of relatively Abelian fields. 623
Fromageot, A.
Notion d'entropie et probabilité. 568
Frostman, O.
Distributions de masses. 980
Theorem of Fáry. 1114
Fubini, S. (Cf. Caianiello, E. R.)
Definizioni della matrice S. 436
Operatore $U(t)$ di Dyson-Feynman. 705
Fu Cheng Hsiang. See Hsiang.
Fuchs, L.
Zappa extension of partially ordered groups. 446
Subdirect unions. I. 612
Rédeian skew product of operator groups. 723
Direct sum of cyclic groups. 945
Basis theorem for finite abelian groups. 1058
Fuchs, L., and Szele, T.
Semisimple rings. 719
Fuchs, R. A.
*Short-crested oscillatory waves. 1028
Fues, E., und Statz, H.
Ersatzpotentiale mit verwandtem Eigenwertspektrum in Schrödinger-Gleichungen. 119
Fuglede, B., and Kadison, R. V.
Determinant theory in finite factors. 660
Fujinaka, H.
Solution of an integral inequality. 144
Fukamiya, M.
Theorem of Gelfand and Neumark and the B^*-algebra. 884
Fuks, B. A., and Levin, V. I.
*Functions of a complex variable and their applications. 150
Fulks, W.
Heat equation. I, II. 51, 1090
Fuller, F. B. (Cf. Lomax, H.)
Trajectories in a solid torus. 556
Existence of periodic points. 669
Fullerton, P. W. See Sharpe, J. A.
Fullerton, R. E. (Cf. Cesari, L.)
Characterization of L spaces. 57
Fulton, C. M.
Weierstrass tensors. 321
Non-Euclidean geometries. 576
Fumi, F. G.
Matter tensors in symmetrical systems. 500
Funk, P., und Berger, E. R.
*Gleichmässig belastete eingespannte Platte. 429
Fürst, D.
Verallgemeinerung eines Satzes von Weyl. 1072

Fusa, C.
Disuguaglianza di Noether. 578
Lemma di Chisini. 790
Sistemi lineari di curve piane algebriche. 1010
Fu-Sheng Yin. See Yin.

Gadd, G. E.
Hydrodynamical aspects of swimming of snakes and eels. 424
Boundary layer separation in compressible flow. 1139
Gaddum, J. W.
Convex cones and linear inequalities. 576
Metric methods in integral and differential geometry. 581
Gaeta, F.
Varietà algebriche V_{r-2} di residuale finito in S_r. I. 79
Curve origini di una catena di resti minimali. II. 310
Rigate doppie. 403
Sistemi lineari appartenenti al prodotto di più varietà algebriche. 682
*Classification des variétés algébriques. 682
Gagaev, B. M.
Existence theorems for integro-differential equations. 182
Generalization of Fourier integral by Lobačevskiĭ. 832
Gagua, M. B.
Approximation by solutions of elliptic differential equations. 542
Approximation of solutions of elliptic differential equations. I, II. 542
Behavior of analytic functions and their derivatives. 547
Theorem of S. N. Bernšteĭn. 976
Theorem of Hardy and Littlewood. 1075
Gahariya, K. K.
Representation of function of two variables by singular double integrals. 257
Gahov, F. D.
Riemann's boundary problem. 629
Inverse boundary problems. 630
Note of I. C. Gohberg. 762
Gaier, D.
Summierbarkeit beschränkter und stetiger Potenzreihen. 369
Schlichte Potenzreihen. 737
Gaier, D., und Peyerimhoff, A.
Eulersche Reihentransformationen. 1078
Gál, I. S.
Méthode de résonance et espaces de type (B). 288
Condensation of singularities. 657
Galafassi, V. E.
Falde delle rigate astratte reali. 311
Omeomorfismi algebrici fra iperspazi reali. 1011
Geometria differenziale proiettiva e geometria algebrica. 1116
Galanin, A. D.
Radiative corrections in quantum electrodynamics. I, II. 436
Relativistic equation of interacting particles. 707
Gale, D.
Problem in classical mechanics. 99
Inscribing n-dimensional sets in a n-simplex. 787
n-person games with perfect information. 999
Gale, D., and Stewart, F. M.
*Infinite games with perfect information. 999
Galilei, Galileo.
*Opere. 1050
Galimov, K. Z.
Equilibrium equations for finite displacements. 516
Elastic shells with finite displacements. 516
Plates and shells with finite displacements. 1144
Galissot, F. See Gallissot, F.
Gallarati, D.
Superficie dei quinto ordine. 311
Superficie algebriche aventi un elevato numero di punti singolari isolati. 311
Gallego-Diaz, J.
Functional classification of utility. 779
Gallego-Diaz, J. (Continued)
Partial differential equations of utility. 780
Riemann spaces and mathematical economics. 780
de G. Allen, D. N. See Allen.
Galli, M.
Deformazioni relativistiche. I, II. 98, 417
Ottica relativistica generalizzata. 214
Gallissot, F.
Dynamique Newtonienne et relativiste. 325
Équations du mouvement des systèmes matériels. 325
Transformations infinitésimales et équations de la mécanique. I, II. 378, 471
Impossibilités et indéterminations dues aux liaisons. 507
Dynamique des solides en contact. 694
Gamba, A.
Rappresentazioni del gruppo simmetrico. 16
Gambier, B.
Propriété projective d'un couple de coniques. 897
Gamo, H.
Waves in circular waveguide. 823
Ganapathy Iyer, V.
Space of integral functions. III. 657
Gandin, L. S., and Solovelčik, R. B.
Evaporation from a water-basin. 651
Gandini, C.
Teorema di Ingham sui "Grandi indici." 158
Ganea, T.
Covering spaces of homogeneous spaces. 136
Fundamental group of covering spaces. 136
Multikohärenz topologischer Gruppen. 136
Covering spaces of topological products. 193
Simply connected spaces. 193
Monotone transformations and the fundamental group. 193
Existence of simply connected covering spaces. 193
R-equivalent spaces. 1003
Ganin, M. P.
Boundary value problems for polyanalytic functions. 265
Regularization of singular integral equations. 763
System of singular integral equations. 764
Gantmaher, F. R., and Kreĭn, M. G.
Oscillation matrices and kernels and small oscillations of mechanical systems. 178
Gaponov, A. V.
Nonholonomic systems of Čaplygin and electrical machinery. 825
Theory of electrical machines. 1150
Garabedian, P. R.
*Riemann mapping theorem. 860
Garabedian, P. R., and Royden, H. L.
Remark on cavitational flow. 102
Garabedian, P. R., and Schiffer, M.
Elliptic partial differential equations. 984
Garabedian, P. R., and Spencer, D. C.
Extremal methods in cavitational flow. 102
Complex boundary value problems. 462
Garabedian, P. R., Lewy, H., and Schiffer, M.
Axially symmetric cavitational flow. 810
García, G.
Absolute differential calculus. 90
Complete diffusion equation. 381
*New theory of general relativity. 1023
García Alvarez, M.
Continuous probabilities. 294
García Pradillo, J.
Permutations of n elements with i inversions. 610
Product integrals. 628
Limits of doubly infinite sequences. 974
Gårding, L.
Problème de Dirichlet pour les équations elliptiques. 174
Eigenvalues and eigenfunctions of a vibration problem. 653, 878

Gårding, L. (Continued)
*Dirichlet's problem and the vibration problem for elliptic differential equations. 653
*Problème de Goursat pour l'équation des ondes. 878
Gardner, A.
Greenwood's problem of intervals. 186
Garnier, R.
Cinématique cayleyenne. 202
Systèmes différentiels associés au problème de Riemann. 751
Transformations de Lorentz. 807
Garnir, H. G.
Thèorie des distributions. 272
Problèmes aux limites dans la théorie des distributions. 272
Distributions résolvantes des opérateurs linéaires. 656
Opérateur elliptique du quatrième ordre. 1090
Garreau, G. A.
Methods of generating T-matrices. 39
Garrick, I. E.
*Conformal mapping in aerodynamics. 909
*Moving sources in nonsteady aerodynamics. 920
Garrido, J.
Groupes de symétrie des ornements. 351
Garrido, T. Iglesias. See Iglesias Garrido, T.
Garrigue, V. Rouquet la. See Rouquet la Garrigue, V.
Garwick, J. V.
*Numerical solution of integral equations. 908
de la Garza, A.
Approximate solutions of linear equations. 906
Gaschütz, W.
Erweiterungstheorie der endlichen Gruppen. 445
Darstellungstheorie der endlichen Gruppen. 533
Gaspar Teixeira, J.
Analytic theory of polynomials. 268
Gates, L. D., Jr.
Differential equations in distributions of Schwartz. 645
Gatteschi, L.
Errore nella formula di Hilb e zeri dei polinomi di Legendre. 466
Gauthier, L.
*Classification des courbes algébriques. 577
Gavrilov, N. I.
Stability according to Lyapunov. I, II. 275, 276
Gavurin, M. K.
Differential equations of form $y' = Ay^2 - 2By + C$. 276
Convergence of iterative processes. 412
Gaydon, F. A.
Torsion and tension of a plastic cylinder. 113
Gayen, A. K.
Inverse hyperbolic sine transformation on Student's t. 995
Geary, R. C.
Relationship between two variables when one is controlled. 776
Gegeliya, T. G.
Singular integral equations. 879
Géhéniau, J.
Espace du noyau et structure en couches. 227
Geidel, H.
Verrechnung und Zusammenfassung von Versuchsergebnissen. 778
Geiringer, H.
Ideal-plastischer isotroper Körper. 602
Charakteristiken des ebenen Plastizitätsproblems. 702
Perfectly plastic body. 929
Teoria matematica della plasticità. 929
Gelbaum, B. R., and Kalisch, G. K.
Measure in semigroups. 256
Gel'fand, I. M.
Remark on work of Bari, "Biorthogonal systems and bases in Hilbert space." 289
Spectrum of non-self-adjoint differential operators. 1091
Gel'fand, I. M., and Fomin, S. V.
Geodesic flows on manifolds of constant negative curvature. 660
Gel'fand, I. M., and Graev, M. I.
Unitary representations of Lie groups. 448
Gel'fand, I. M., and Naĭmark, M. A.
Unitary representations of a unimodular group. 352
Gel'fond, A. O.
Distribution of fractional parts and convergence of functional series with gaps. 359
Linear differential equations of infinite order. 739
The calculus of finite differences. 759
Interpolation problem. 760
Gel'man, E. E.
Real spinors in the general theory of relativity. 97
Georgiev, G.
Résolution de $\sum_{k=1}^{n} A_k \prod_{i=1}^{n} x_i^{a_{ki}} = A_0$. I, II, III. 354, 950, 1063
Automorphismes à points fixes des surfaces fermées orientables. 490
Formulas of mechanical quadratures. 852
Indeterminate equation $\sum_{k=1}^{n} A_k x_k^{m_k} = 0$. 950
Gerasimenko (Kuznecova), L. V.
Solution of the Cauchy-Kovalevskaya problem. 284
Gerber, R.
Prolongement analytique des fonction harmoniques. 168
Écoulements d'un liquide parfait, pesant. 508
Existence des écoulements plans. 508
Gercenšteĭn, M. E.
Longitudinal waves in ionized medium. 226
Gergen, J. J., and Dressel, F. G.
Mapping by p-regular functions. 262
Uniqueness for p-regular mapping. 262
Gericke, H.
Satz von Hajos. 131
Algebraische Betrachtungen zu den Aristotelischen Syllogismen. 935
Gerjuoy, E.
Total reflection of waves. 924
Germain, P.
Equation de Tricomi. 177
Equation du type mixte. 177
Ecoulements des fluides compressibles. 598
Germain, P., et Bader, R.
Problèmes aux limites pour une équation hyperbolique. 177
Problème de Tricomi. 177
Equation de Tricomi. 380
Equation de type mixte de Tricomi. 654
Germain, P., et Liger, M.
Ecoulements subsoniques et transsoniques. 920
Germansky, B.
Fekete-systems of sets. 854
Germay, R. H.
Equations récurro-différentielles. I, II, III, IV, V, VI. 46, 47, 375, 645, 750
Equations intégrales de Volterra. I, II. 53, 562
Systèmes d'équations intégrales. 382
Equations intégro-différentielles récurrentes. I, II, III, IV, 765, 987, 988
Intégrales au sens de Fuchs d'équations différentielles. 1087
Geronimus, Ya. L.
Extremal problems in $L_\varphi^{(p)}$. 166
Orthogonal polynomials of Steklov. 466
Estimates for polynomials. 747
Mean and uniform approximations. 871
Gerst, I. See Fialkow, A.
Gerstenhaber, M.
Periods of a differential. 970
Gerstenkorn, H.
Elastische Wellen in kubischen Gittern. 113

Geršuni, G. Z.
Free heat convection. 697
Gething, P. J. D.
World-models of kinematic relativity. 916
Geymonat, L.
Ricerche moderne sugli spazi astratti. 715
Ghaffari, A. G.
*Hodograph method in gas dynamics. 698
Ecoulement compressible subsonique. 920
Gherardelli, F. (Cf. Conforto, F.)
Punti $(k+1)$-pli di una g_n^k sopra una curva algebrica. 789
Ghizzetti, A.
Ricerche abeliane e tauberiane. 977
Ghosh, C. S., and Venkata Rao, P.
Primitive machine of Kron. 433
Ghosh, M. N.
Extension of Wald's decision theory. 1104
Ghosh, N. L.
Equilibrium of a thin atmosphere. 589
Exact solutions for viscous incompressible fluid. 1029
Transition from viscous to perfect fluid flow. 1029
Giacomelli, R.
Dinamica di Leonardo da Vinci. 344
Gião, A.
Quelques problèmes de physique théorique. 436
Gibbons, J. J., and Schrag, R. L.
Method of solving the wave equation. 323
Gibbs, W. J.
*Tensors in electrical machine theory. 704
Giese, J. H., and Cohn, H.
Two new non-linearized conical flows. 699
Giesekus, H.
Morphologisch homogene Funktionen. I, II. 296
Gifford, P. W., Jr.
Specialized space curves. 1013
Gihman, I. I.
Differential equations of random processes. I, II. 61, 1101
Differential equations with random functions. 61
Gilbarg, D.
Phragmén-Lindelöf theorem for elliptic partial differential equations. 279
Comparison methods in subsonic flows. 920
Gilbert, C.
Particles in the expanding universe. 592
Gilg, B. See Favre, H.
Gillies, D. B.
*Class of symmetric n-person games. 779
Gillies, D. B., Mayberry, J. P., and von Neumann, J.
*Two variants of poker. 999
Gillis, P. P.
Forme différentielle extérieure fermée. 755
Gillis, P. P., von Mises, R., Ballieu, R., van Dantzig, D., Coutrez, R., Bouckaert, L., Prigogine, I., Campus, F., Fauville, A., Fréchet, M., Hirsch, G.
*Théorie des probabilités. 770
Gillman, L.
Intervals of ordered sets. 543
Gilmore, P. C.
Griss' criticism of the intuitionistic logic. I, II. 1053
Gilroy, T. I. See Clark, R. A.
Gilvarry, J. J.
Approximations in non-linear vector differential equations. 916
Gindifer, M.
Generalized spheres. 72
Gini, C.
Concetto di media. 486
Ginsburg, S.
Relation between sets and elements. 853
Order types and decompositions of sets. 853
Ginsburg, S. (Continued)
Sums of λ-type transfinite series. 1069
Functions on partially ordered sets. 1069
Ginsburg, V. L., and Tamm, I. E.
Theory of spin. 829
Ginzburg, B. L.
Generalization of interpolation formulas. 691
Giorgi, E. De. See De Giorgi, E.
Giorgi, G.
*Calcolo operatorio funzionale. 57
Giovanardi, I.
Onde elettromagnetiche in una guida. 604
Giovanardi, M.
Prospettiva di una superficie di rotazione. 399
Restituzione prospettica col quadro inclinato. 399
Metodo della tripla proiezione ortogonale. 399
Proiezione isometrica. 399
Prospettiva di una superficie di rotazione. 785
Girault, M.
Produit de composition et fonctions caractéristiques. 1098
Girkmann, K., und Tungl, E.
Stäben mit Winkelquerschnitt. 601
Giuliano, L.
Relazioni integrali fra funzioni di Bessel. 642
Successioni di funzioni a variazione limitata. 856
Equilibrie di una piastra indefinita. 1145
Gjellestad, G.
Magneto-hydrodynamic oscillations of a star. 804
Glagolev, A. A.
*Synthetic geometry in the works of Brašman, Cinger and Andreev. 523
Glansdorff, P.
Variation d'une intégrale multiple. 662
Glaser, W.
Elektronenoptische Abbildung. 931
Glazer, V. [Glaser, W.], and Gryumm, G. [Grümm, H.]
Caustic surfaces of electron lenses. 115
Images of electron lenses. I. 115
Glazman, I. M.
Classical problem of moments. 145
Spectrum of one-dimensional singular boundary problems. 1088
Gleason, A. M.
Groups without small subgroups. 135
Glicksberg, I. (Cf. Bellman, R.)
Representation of functionals. 288
Glivenko, E. V.
Planar variation. 30
Gloden, A.
*Table de factorisation des nombres N^4+1 dans l'intervalle $3000 < N \leqq 6000$. 19
Diophantine equations. 136
Systèmes multigrades remarquables. 450
Congruences $2x^2+1 \equiv 0 \pmod{p^2}$ and $2x^2+1 \equiv 0 \pmod{p^4}$. 846
Equation diophantienne $2x^2+1=ay^2$ $(a=2b^2+1)$. 950
Glover, I. E.
Analytic functions with linearly measurable set of singular points. 363
Gluškov, V. M.
Central series of infinite groups. 617
Gnanadoss, A. A.
Periodically recurring series. 1079
Gnedenko, B. V.
Local theorem for stable limit distributions. 61
Ostrogradskiĭ's works on probability. 525
Gnedenko, B. V., and Hinčin, A. Ya.
*Elementary introduction to the theory of probability. 293
Gnedenko, B. V., and Kolmogorov, A. N.
*Limit distributions for sums of independent random variables. 294

Gnedenko, B. V., and Mihalevič, V. S.
Empirical distribution functions. 60
Gnyegyenko, B. V. See Gnedenko, B. V.
Godambe, V. P.
Two-stage sampling. 298
Godeaux, L.
Systèmes canoniques et pluricanoniques. 76
Involutions rationnelles. 76
Points de diramation des surfaces multiples. I, II, III, IV, V. 76, 579, 897
Singularité d'une surface multiple. 77
Involuzione di Geiser. 77
Obituary: A. Demoulin. 121
Transformées rationnelles d'une conique. 195
Surfaces algébriques représentant des involutions cycliques. I, II, III, IV. 199
Surface dont le système canonique possède des composantes fixes. 200
Construction de surfaces irrégulières. 201
Transformations birationnelles planes. 312
*Introduction à la géométrie supérieure. 401
Superficie algebriche dell'iperspazio. 402
Génération des cubiques planes. 496
Surfaces multiples. 578
Surfaces desmiques. I, II. 579, 897
Surfaces algébriques irrégulières. 682
Quartiques gauches rationnelles. 789
Castelnuovo, F. Enriques et géométrie algébrique. 832
Enveloppe des quadriques de Lie. 897
Eléments associés aux points d'une surface. 897
Surfaces ayant mêmes quadrilatères de Demoulin. 897
Involutions cycliques. I, II, III. 898, 1010, 1117
*Transformations birationnelles du plan. 898
Transformations birationnelles involutives. 1010
Godement, R.
Spherical functions. I. 620
Goffin, E. Sauvenier-. See Sauvenier-Goffin, E.
Goffman, C.
Generalization of Riemann integral. 256
Definition of Lebesgue integral. 855
Real functions. 855
Variation of means. 888
Gohberg, I. C.
Normed rings and singular integral equations. 54
Goheen, H. W. See Davidoff, M. D.
Gokieli, L. P.
Paradoxes of the theory of sets. 715
Gołąb, S.
Condition d'ombilicité. 1013
Gołąb, St., et Wróbel, T. H.
Courbure et torsion géodésique. 407
Goland, M. See Dengler, M. A.
Gol'berg, P. A.
Sylow bases of infinite groups. 1060
Goldberg, J. N.
Covariant field theories. 805
Goldberg, K.
Table of Wilson quotients. 1062
Goldberg, M.
Squaring of developable surfaces. 197
Goldberger, M. L.
Approximation methods in scattering theory. 119
Gol'denveĭzer, A. L.
Riemann-Hilbert problem and momentless shells. 334
Gol'dfarb, Ē. M.
Method of sources for heat conduction equation. 560
Goldhaber, J. K.
Linear mappings of algebras. 1057
Goldie, A. W. (Cf. Bonsall, F. F.)
Direct decompositions. I, II. 9, 10
Jordan-Hölder theorem in abstract algebra. 129
Gol'dman, M. A.
Approximation of completely continuous linear operators. 1095
Gol'dman, M. A., and Kračkovskiĭ, S. N.
Null-elements of a linear operator. 478
Goldstein, A. A., and Fröberg, C.-E.
Restricted problem of three bodies. 415
Goldstein, A. W.
Supersonic flow in rotating impellers. 512
Goldstein, E. See Keller, J. B.
Gol'dšteĭn, L. V.
Projective theory of curves. 687
Goldstine, H. H. See von Neumann, J.
Golomb, M., and Rosenberg, R. M.
*Critical speeds of uniform shafts. 927
Golubev, V. V.
Theory of a flapping wing. I, II. 594, 595
Gomes, A. Pereira.
Détermination d'un "convergent." I, II. 811, 1138
Fonction diamètre et structures uniforme et topologique. 892
Gomes, R. L.
Example of a set not Lebesgue measurable. 28
*The Lebesgue-Stieltjes integral in a locally compact space. I. 147
Gomm, G.
Wahrscheinlichkeitsprobleme im Fernsprechverkehr. 296
Gonçalves, J. V.
Calcul abrégé d'un résultant. 940
Développement de $f(x, y)$. 957
Formule de Taylor. 957
Formules de Ruffini. 1051
Gončarov, V. L.
*Elementary functions of a real variable. 1070
*Elementary functions of a complex variable. 1073
González, M. O.
Function defined by a differential equation. 271
*Problems of differential equations. 556
González Domínguez, A.
*Distributions and analytic functions. 642
González Domínguez, A., and Scarfiello, R.
Products of random variables. 186
Good, I. J. (Cf. Foster, F. G.)
Dirichlet's multiple integral. 959
Goodell, J. D.
Foundations of computing machinery. I, II. 691
Decision element systems. 1130
Goodman, A. W.
Inaccessible boundary points. 367
Starlike univalent functions. 739
Goodman, L. A. (Cf. Bahadur, Raghu Raj.)
Poisson-Gamma distribution problem. 189
Samples from k lists. 390
Optimal arrangements in social learning situations. 570
Sequential sampling tagging. 776
Serial number analysis. 777
Improving some estimators. 888
Population growth of the sexes. 1105
Goodman, N.
New notes on simplicity. 440
Goodman, T. R.
Wing oscillating at supersonic speeds. 426
Goodstein, R. L.
*Constructive formalism. 123
*The foundations of mathematics. 527
Goodwin, E. T. See Fox, L.
Goormaghtigh, R.
Transformation géométrique. 194
Pôle multi-angulaire. 398
Quadrilatère complet. 674
L'isopôle. 785
Géométrie infinitésimale. 1013

Gorbunov, A. D.
Ordinary linear homogeneous differential equations. 751
Gorčinskiĭ, Yu. N.
Groups with a finite number of classes of conjugate elements. 446
Periodic groups with finite number of classes of conjugate elements. 446
Gordevskiĭ, D. Z.
Duality principles and Desargues configurations. 675
Gordon, B. M., and Nicola, R. N.
*Special-purpose digital data-processing computers. 1021
Gordon, W. L., and McArthur, C. W.
Uniform Cauchy points. 362
Gorenstein, D.
Adjoint plane curves. 198
Gorman, W. M.
Community preference fields. 1000
Goršin, S.
Stability of motion with constantly acting disturbances. I, II. 48, 752
Critical cases. 48
Differential equations with constantly acting disturbances. 48
Lyapunov's second method. 752
Górski, J.
Problème de F. Leja. 1084
Görtler, H.
Laminare Grenzschicht am schiebenden Zylinder. I. 595
v. Gorup, G.
Strömungsfunktionen bei zeitlich veränderlicher Kontur. 810
Götlind, E.
Article by Singh and Shukla. 345
Sheffer functions in n-valued logic. 834
Gottesman, N. See Fan, Ky.
Gottschalk, W. H.
The extremum law. 361
Götz, A. See Fast, H.
Grabar', M. I.
Transformation of dynamical systems. 981
Grad, H.
Statistical mechanics of dynamical systems. 520
Statistical mechanics, thermodynamics, and fluid dynamics of systems with arbitrary number of integrals. 521
Profile of a shock wave. 522
Gradšteĭn, I. S. (Cf. Ryžik, I. M.)
Linear equations with variable coefficients. 645
Stability theory of differential equations. 1085
Solutions on time half-line of differential equations. 1086
Graef Fernández, C.
Birkhoff gravitational field of a mass-point. 418
*Birkhoff's theory of gravitation. 807
Movement of planets in central field of Birkhoff. 1135
Graev, M. I. See Gel'fand, I. M.
Graffi, D.
Guide d'onda. 115
Teorema di unicità per le equazioni di Maxwell. 115
Teorema di unicità nella dinamica dei fluidi compressibili. 598
Problema della derivata obliqua. 750
Problema dei due corpi di massa variabile. 801
Meccanica non-lineare. 1087
Graham, E. W. See Beckenbach, E. F.
Graiff, F.
Parallelogrammi chiusi in varietà a torsione. 316
Integrazione negli spazi di Riemann. 1015
Grammel, R.
*Nichtlineare Schwingungen mit unendlich vielen Freiheitsgraden. 1039
Gran Olsson, R.
Bewegung von Rotationskörpern. 1024
Grant, F. S.
Gravitational anomalies. I, II. 211, 1021
Grant, R. B.
Operational analysis of nonlinear systems. 983
Graue, L. C.
Curve on a hyperquadric. 792
Graves, Ross E.
Functionals of finite degree. 636
Gray, C. A. M.
Infinitely long beams. 1147
Gray, H. J., Jr., Rubinoff, M., and Sohon, H.
Simulation of a rigid body problem. 909
Greco, D.
Criteri di compattezza per insiemi di funzioni. 29
Gruppi finiti che sono somma di quattro sottogruppi. 445
Omomorfismi del reticolo dei sottogruppi normali. 618
Convergenza degli sviluppi in serie di autosoluzioni. 875
Green, A. P.
The plastic yielding of notched bars. 1041
Green, B. F.
Orthogonal approximation in factor analysis. 715
Green, H. S.
Field quantization. 1046
First-order meson wave equations. 1046
Boltzmann's equation in quantum mechanics. 1048
Green, J. A.
Duality in abstract algebra. 133
Groups with odd prime-power exponent. 350
Green, J. W.
Level surfaces of potentials of masses. 46
Approximately convex functions. 254
Approximately subharmonic functions. 271
Chords of a convex curve. II. 495
Sets closed with respect to products, translations, and point reflections. 544
Curves encircling a cylinder. 685
Solutions of $f'(x) = f(x + a)$. 760
Green, M. S.
Markhoff random processes and statistical mechanics of time-dependent phenomena. 1048
Green, S. L.
*The theory and use of the complex variable. 458
Greenberg, H. J. See Drucker, D. C.
Greene, R. F. See Callen, H. B.
Greene, T. R., and Heins, A. E.
Water waves over a channel. 1137
Greenwood, J. A. See Gumbel, E. J.
Greenwood, R. E.
Probabilities of solitaire card games. 770
Permutation group. 939
Greenwood, T.
*La nature du transfini. 124
Gregg, C. V.
Reciprocal nomograms. 909
Grémillard, J.
Problème des trois corps. 802
Solutions périodiques de la troisième sorte. 1132
Grenander, U.
Empirical spectral analysis of stochastic processes. 187
Toeplitz forms and stationary processes. 187
Grenander, U., and Rosenblatt, M.
Spectral analysis of stationary time series. 61
Greniewski, H.
Arithmetics of natural numbers. 345
Groups and fields definable in propositional calculus. 834
Griffith, B. A., and Smillie, K. W.
Punched-card method for integral equations. 210
Griffith, J. S. See Drazin, M. P.
Grinberg, G. A.
Plane problem of elasticity for rectangular region and bending of rectangular plate. 1143
Grinblyum, M. M.
Definition of an operator integral. 28

Grioli, G.
Stato tensionale di un sistema continuo. 514
Statica delle piastre omogenee. 515
Elastostatica isoterma. 515
Problema dell'elastostatica in casi non isotermi. 515
Problema di de Saint-Venant. 701
Dinamica del solido pesante asimmetrico. 917
Griselle, T.
Fermat's last theorem for $n=2(8a+1)$. 949
Griss, G. F. C.
Negationless intuitionistic mathematics. IV. 4
Grobman, D. M.
Differential equations analogous to linear ones. 274
Gröbner, W.
Oberflächenwellen von Flüssigkeiten. 216
Calcolo vettoriale e geometria algebrica. 401
Wahrscheinlichkeitsbegriff in der Physik. 484
Arithmetisches Geschlecht einer algebraischen Mannigfaltigkeit. 682
*Idéaux et géométrie algébrique. 790
Grodzinski, P.
*Getriebelehre. I. 1024
Groenewold, H. J.
Spinor rotations and reflections. I, II. 1125
de Groot, J.
Continuous mappings. 304
de Groot, S. R. See Tolhoek, H. A.
Grosberg, Yu. I.
Galerkin's method for nonhomogeneous boundary conditions. 474
Grosch, H. R. J.
*Optimum interval mathematical tables. 91
Groschwitz, E.
Beiträge zur Feldmechanik. 709
Grosjean, C. C.
Random flight problem. 772
Gross, B.
Linear electrical networks. 824
Gross, O. See Bellman, R.
Gross, W.
Capacità elettrostatica di un conduttore. 519
Grossman, D. P.
Numerical differentiation. 1129
Grossmann, A.
Ensembles ordonnés. 1069
Grosswald, E.
Subgroups of the modular group. I, II. 250
Sums involving binomial coefficients. 642
Algebraic properties of Bessel polynomials. 747
Grotemeyer, K. P.
Integralsätze der affinen Flächentheorie. 788
Kennzeichnende Eigenschaft der Affinsphären. 789
Grothendieck, A.
Produit tensoriel topologique d'espaces vectoriels topologiques. 563
Grove, V. G.
Hypersurface imbedded in space of n dimensions. 207
Quadric of Lie. 582
Gruder, O.
Zerlegung von Permutationen in Zyklen. 442
Gruenberg, K. W.
Theorem of Burnside. 14
Engel groups. 1060
Grümm, H. (Cf. Glazer, V.)
Intensitätsverteilung im Bildraum von Elektronenlinsen. 431
Verbreiterung eines fokussierten Elektronenbündels. 932
Grün, O.
Klasse von endlichen Gruppen. 350
Ungerade vollkommene Zahlen. 724
Grünbaum, A.
The extended linear continuum. 835
Grundy, P. M.
Fitting of truncated normal distributions. 487
Grünsch, H. J.
Randwertaufgabe der Potentialtheorie. 588
Grużewska, H. Milicer-. See Milicer-Grużewska.
Gryumm, G. See Grümm, H.
Grzegorczyk, A., and Kuratowski, C.
Janiszewski's property of topological spaces. 1108
Guderley, G.
*Shocks in mixed subsonic-supersonic flow. 1140
Guest, P. G.
Estimation of standard error. 64
Curve-fitting by the method of grouping. 321
Fitting of polynomials. I, II. 906, 1127
Gugenheim, V. K. A. M.
Piecewise linear embedding. 74
Guggenheimer, H.
Vierdimensionale Einsteinräume. 498
Kählersche und symplektische Differentialalgebren. 585
Guillotin, R.
Cubique et triangles associés. 493
Guinand, A. P.
Logarithmic derivatives of gamma function. 468
Guitel, G.
Trièdres et tétraèdres. 493
Gulmanelli, P. See Caldirola, P.
Gumbel, E. J., Greenwood, J. A., and Durand, D.
Circular normal distribution. 664
Günther, M.
Relativistic formulation of multi-electron problem. 707
Günther, P.
Huygenssches Prinzip bei partiellen Differentialgleichungen. 282
Gupta, A. K.
Estimation from a censored sample. 487
Gupta, A. M. Sen. See Sen Gupta, A. M.
Gupta, Hansraj.
Sums of powers. 138
Table of values of $N_3(t)$. 450
Gupta, H. C.
Self-reciprocal functions. 639
Gupta, K. K.
Fierz-Pauli equation for particles of spin 3/2. 827
Gupta, Suraj N.
Quantization of Einstein's gravitational field. 417
Quantum electrodynamics. 826
Gupta, Sushil Chandra Das. See Das Gupta.
Guptill, E. W.
Sound field of a piston source. 923
Guptill, E. W., and MacDonald, A. D.
Acoustical field near transducer. 332
Gurevič, G. B.
Symmetric and skew-symmetric tensors. 586
Quadratic forms in fields of characteristic 2. 615
Gurney, M. See Dalenius, T.
Gürsey, F.
On two-component wave equations. 435
Gravitation and cosmic expansion. 915
Gustin, W.
Characterization of partition polynomials. 138
Partitioning an arithmetic interval. 627
Guth, E. See Wang, Ming Chen.
Gutiérrez Novoa, L.
Anti-metric quadratic space. 1002
Gutin, L. Ya.
Vibrations of an elastic semi-space. 112
Güttler, A.
Beugung durch dielektrische Kugeln. 933
Guttman, I. See Fraser, D. A. S.
Guy, R.
Solutions de l'équation d'évolution. 765

Guzzo, A.
Archimede. 609
Euclide. 609
Tolomeo. 610
Gyires, B.
Determinantensatz von J. Hunyady. 940
Ein Determinantensatz. 1054
*Grenzwert von Summenverteilungen. 1099

Haack, W.
Elliptische Differentialgleichungen und Integralgleichungen. II. 985
Randwertprobleme für elliptische Differentialgleichungen. 986
Haacke, W.
Stabilität von linearen Differentialgleichungen. I, II. 276, 646
Haacke, W.
Schwingungen in n-fachen Netzwerken. I, II. 434, 1044
Haag, R.
Kanonischer Formalismus in entarteten Fällen. 324
Theorie der Spinwellengleichungen. 710
Zustände in der nichtrelativistischen Quantenmechanik. 825
Haantjes, J.
Ptolemy's theorem. 75
ter Haar, D. See Martin, B.
Haas, F.
Differential equations on closed manifolds. 471
Habsch, H.
Darstellung Riemannscher Flächen. 969
Hackett, F. E.
Fitzgerald's letters to Heaviside. 832
Hadamard, J.
*Non-Euclidean geometry in the theory of automorphic functions. 156
*Lectures on Cauchy's problem in linear partial differential equations. 474
Hadwiger, H.
Addierbare Intervallfunktionale. 28
Hillsche Hypertetraeder. 198
Quadratische Distanzintegrale für Eikörper. 198
Isoperimetrische Ungleichung für abgeschlossene Punktmengen. 198
Ergänzungsgleichheit k-dimensionaler Polyeder. 309
Mittelpunktspolyeder und translative Zerlegungsgleichheit. 309
Einlagerung kongruenter Kugeln in eine Kugel. 310
Ungleichung für drei Minkowskische Masszahlen. 495
Isoperimetrische Ungleichung für k-dimensionale konvexe Polyeder. 679
Extremale konvexe Rotationskörper. 787
Lineare additive Polyederfunktionale. 964
Translationsinvariante Polyederfunktionale. 964
Additive Funktionale k-dimensionaler Eikörper. I. 1114
Hadwiger, H., und Kirsch, A.
Zerlegungsinvarianz des Integrals. 147
Haefeli, H. G.
Funzionali lineari delle funzioni analitiche. 386
Hafner, E.
Elektromagnetische Eigenschwingungen eines Parallelepipeds. 519
Elektromagnetische Eigenschwingungen Hohlraumresonatoren. 823
Häggmark, Per.
*Quintic Diophantine equations. 354
Hahn, W.
Lineare geometrische Differenzengleichungen. 478
Differentialgleichungen, deren Lösungen einer Rekursionsformed genügen. II. 556
Haimovici, A.
Some asymptotic transformations. 1121
Groupe de transformations tangentielles. 1121
Hain, K.
Synthese der Schiebepaar-Getriebe. 214
Hajós, G.
New results in geometry. 121
Feuerbachsche Kugeln. 398
Haken, H.
Identitätsproblem bei Gruppen. 618
Halatnikov, I. M.
Hydrodynamics of Helium II. 427
Heat exchange between a solid body and Helium II. 427
Hald, A.
*Statistical theory with applications. 188
*Statistical tables and formulas. 188
Halilov, Z. I.
Infinite system of partial differential equations. 178
Operator equation in partial derivatives. 379
Deflection of simply supported plate. 1037
Hall, H. See Halpern, O.
Hall, J. S.
Primeness of Mersenne numbers. 1063
Hall, Marshall, Jr.
Combinatorial problem on abelian groups. 350
Subgroups of free products. 1060
Equations $y^2 = x^3 - k$ without integer solutions. 1063
af Hällström, G.
Conformal mapping of incision domains. 549
Lineares Inselproblem der kombinatorischen Wahrscheinlichkeitsrechnung. 770
Bemerkung über Einschnittgebiete. 861
Halmos, P. R.
*Present problems on operators in Hilbert space. 565
Spectra and spectral manifolds. 1096
Halmos, P. R., Lumer, G., and Schäffer, J. J.
Square roots of operators. 767
Halperin, I.
Supremum of additive functions. 564
Halperin, M.
Maximum likelihood estimation. 65
Halpern, O., and Hall, H.
Scattering in relativistic quantum mechanics. 118
Halphen, E.
Famille de fonctions. 372
Hamaker, H. C.
Sequential sampling for attributes. I. 996
Hameed, A.
Quadric associated with two points. 494
Hamel, G.
Spiral motions of viscous fluids. 509
Dünne, schwach gebogene Platten. 1144
Hamill, C. M.
Collineation group of order $2^{13} \cdot 3^3 \cdot 5^2 \cdot 7$. 1060
Hamilton, J.
Real and virtual processes in quantum electrodynamics. 607
Steady states and the S-matrix. 707
Hammer, P. C.
Convex bodies associated with a convex body. 678
Centroid of a convex body. 678
Hammer, P. C., and Sobczyk, A.
Planar line families. I. 787
Hammersley, J. M.
Computation of sums of squares and products. 91
Slutzky-Fréchet theorem. 294
Lagrangian integration coefficients. 321
Asymptotic forms of statistical frequency functions. 387
Conjecture of Nelder. 769
Tables of complete elliptic integrals. 1018
Hampel, R.
Noyaux itérés dans l'espace à p dimensions. 987
Equations intégrales dans la théorie d'électricité. 1150

Hamstrom, M.-E.
Continuous collections of continuous curves. 783
Webs in the plane. 1109
Han Chang. See Chang.
Hanani, H.
Sum of distances from given points. 896
Hancock, G. J.
Self-propulsion of microscopic organisms. 1030
Hannah, D. M.
Forced flow against a rotating disc. 327
Hanneken, C. B.
*Irreducible quintic congruences. 353
Hanner, O.
Retraction and extension of mappings. 396
Hansraj Gupta. See Gupta, Hansraj.
Hanus, W.
Torsional oscillator. 227
Hao Wang. See Wang.
Haplanov, M. G.
Completeness of a system of analytic functions. 154
Hara, O., and Shimazu, H.
Yukawa's theory of non-local field. I. 117
Haradze, A.
Class of algebraic surfaces. 578
Haranen, V. Ya.
Propagation of sound in medium with random fluctuations. 923
Harary, F., and Norman, R. Z.
Dissimilarity characteristic of Husimi trees. 1113
Harary, F., and Uhlenbeck, G. E.
Number of Husimi trees. I. 836
Harasahal, V.
Denumerable systems of differential equations. I, II, III. 48, 753, 754
Harazov, D. F.
Integral equations with kernels rational with respect to a parameter. 179
Integral equations with kernels polynomial in a parameter. I, II. 179, 180
Integral equations with generalized Schmidt kernels. 180
Integral equations and boundary problems of differential equations. 764
Linear equations in Hilbert spaces. 990
Hardy, G. H.
*A course of pure mathematics. 10th ed. 145
Hargest, T. J.
Electric tank for velocity distributions. 211
Hari das Bagchi. See Bagchi.
Harrik, I. Yu.
Convergence of variational processes. 25
Approximation of functions. 25
Harris, T. E.
First passage and recurrence distributions. 567
Harrold, O. G., Jr., and Moise, E. E.
Almost locally polyhedral spheres. 784
Harshbarger, B., and Davis, L. L.
Latinized rectangular lattices. 5
Hart, R. W. See Montroll, E. W.
Hartley, H. O.
Tables for numerical integration. 91
Second order autoregressive schemes. 778
Hartley, H. O., and Fitch, E. R.
Incomplete beta-function and cumulative binomial distribution. 63
Hartman, P.
Non-oscillatory linear differential equations. 50
Zeros of solutions of differential equations. 278
Singular boundary value problems. 558
Derivatives of solutions of differential equations. 754
Hartman, P., and Wintner, A.
Vibration diagrams of time-dependent frequency. 170
Hartman, P., and Wintner, A. (Continued)
Geodesic torsions and parabolic and asymptotic curves. 406
Geodesic fields. 406
Spectrum of the harmonic oscillator. 473
Hyperbolic partial differential equations. 475
Sine series with monotone coefficients. 553
Envelopes and discriminant curves. 582
Curvatures of a surface. 583
Real binary differential systems at singular points. 645
Singularities in nets of curves. 1014
Riemannian manifolds which cannot carry analytic or harmonic functions. 1015
Third fundamental form of a surface. 1119
Hartman, S.
Gitterpunktverteilung bei Verschiebungen von Mengen. 960
Hartman, S., rédacteur.
Famille singulière d'ensembles de nombres naturels. 26
Hartree, D. R.
*Numerical analysis. 690
Haselgrove, C. B. See Auluck, F. C.
Hasenjaeger, G.
ω-Unvollständigkeit in der Peano-Arithmetik. 124
Vollständigkeit des Prädikatenkalküls. 1052
Hashimoto, H.
Local properties on spaces. 396
Hashitsume, N.
Statistical theory of linear dissipative systems. 1048
Hasimoto, H.
Compressible flow past elliptic cylinder. 330
Hasimoto, Z.
Limiting line in simple wave. 921
Cross Mach lines in simple waves. 921
Haskell, N. A.
Dispersion of surface waves. 820
Haskind, M. D.
Heaving and pitching of a ship. 811
Hasse, H.
Binäre diophantische Gleichungen. 140
Classi su corpi quadratici immaginari e reali. 140
Klassenzahl abelscher Zahlkörper. 141
*Vorlesungen über Zahlentheorie. 534
Artinsche Vermutung und verwandte Dichtefragen. 538
Einheitengruppe in einem kubischen Zahlkörper und im zugehörigen bikubischen Normalkörper. 538
*Mathematik als Wissenschaft, Kunst und Macht. 715
Hatfield, C. See Cameron, R. H.
Hattori, A.
Invariant subrings. 529
Multiplicative group of simple algebras. 723
Haug, A.
Ausstrahlungsbedingung bei komplexer Wellenzahl. 338
Haupt, O.
Abbildungssatz von B. Sz.-Nagy. 305
*Einführung in die Algebra. I. 612
Differentiation additiver Funktionen. 627
Haupt, O., und Pauc, C. Y.
Vitalische Systeme in Booleschen σ-Verbänden. 544
Halobedingungen und Vitalische Eigenschaft von Somensystemen. 1070
Haurwitz, B., and Craig, R. A.
Atmospheric flow patterns. 816
Hausner, M., and Wendel, J. G.
Ordered vector spaces. 566
Hausrath, A. H. See Stippes, M.
Havas, P.
Equations of motion of point particles. I. 435
Havelock, T. H.
Moment on a submerged solid of revolution. 326
Havinson, S. Ya.
Extremal problems of theory of analytic functions. 155
Functions mapping region on a multi-sheeted circle. 967

Havliček, K.
Surfaces réglées. 405
Hawley, N. S.
Complex fiber bundles. 73
Constant holomorphic curvature. 690
Hayashi, C.
Non-linear periodic oscillations. I, II. 276, 874
Subharmonic oscillations in non-linear systems. 1087
Hayashi, K., and Yoshizawa, T.
Ordinary differential equations and uniqueness theorems. 47
Hayes, C. A., Jr.
Differentiation with respect to ϕ-pseudo-strong blankets. 28
Differentiation of set functions. 29
Hayes, N. D.
Roots of $x = (c \exp)^n x$. 30
Hayman, W. K.
Functions with values in a given domain. 156
Integral function with defective value. 965
Haynsworth, E. V.
Determinants with dominant main diagonal. 837
Haywood, J. H.
Equations of motion in general relativity. 97
Hažaliya, G. Ya.
Functions regular in doubly connected regions. 549
Head, J. W.
Decomposition of functions. 163
Heading, J., and Whipple, R. T. P.
Oblique reflexion of wireless waves. 116
Hearon, J. Z.
Nonlinear diffusion in metabolic systems. 781
Approximate solution of diffusion equation. I, II. 781, 1000
Kinetics of linear systems. 982
Heaslet, M. A. See Lomax, H.
Heaslet, M. A., and Spreiter, J. R.
Reciprocity relations in aerodynamics. 219
Heegner, K.
Diophantische Analysis und Modulfunktionen. 725
van Heel, A. C. S.
Newton's work on optical aberrations. 609
van Heemert, A.
Load-distribution for yawed and swept wings. 103
Downwash at the surface of a lifting plane. 103
Prandtl's equation. 103
Elliptic plane wing under yaw. 103
Heffter, L.
Gleichmässige Differenzierbarkeit einer Funktion. 546
van der Heiden, J. A.
Least squares applied to simultaneous equations. 691
Heider, L. J.
Lattice ordering on Banach spaces. 386
Heijenoort, J. Van. See Van Heijenoort.
Heilbronn, G.
Equations $s + f(x, y, z, p, q, r) = 0$ qui possèdent un invariant. 477
Heinhold, J.
*Theorie und Anwendung der Funktionen einer komplexen Veränderlichen. I. 258
Heinrich, G.
Energietransport in strömenden Medien. I, II. 509, 918
Verallgemeinerungen der Pendelbewegung. 1136
Heinrich, W. W.
Satellite problem of three bodies. 590
Heins, A. E. See Greene, T. R.
Heins, M.
Conformal mapping of Riemann surfaces. I. 862
Heinz, C.
Invarianten bei Gruppen. 447
Heinz, E.
Beschränkte Operatoren im Hilbertschen Raum. 289
Lösungen der Minimalflächengleichung. 885
Heisenberg, W.
*Stability of laminar flow. 424
*Theorie der Elementarteilchen. 436
Helfer, H.
Magneto-hydrodynamic shock waves. 804
Heller, A.
Maps of spaces with operators. 1110
Hellwig, G.
Elliptische Differentialgleichungssysteme und Verbiegung von Flächenstücken. 985
Randwertproblem eines elliptischen Systems. 985
Systeme elliptischer Differentialgleichungen. 985
Helsel, R. G., and Levine, N.
Transformations of the plane. 363
Helson, H.
Spectral synthesis of bounded functions. 246
Ideal structure of group algebras. 246
Helwig, W. F.
Boundary conditions in Fourier integral formulation. 746
Hély, J.
Notion de masse et dynamique du point. 214
Dynamique du point matériel doué de spin. 416
Hemer, O.
Diophantine equation $ax^2 + by^2 + cz^2 = 0$. 247
*Diophantine equation $y^2 - k = x^3$. 354
Hemp, W. S.
Sandwich construction. 111
Henderson, C. R.
Estimation of variance and covariance components. 1105
Henkin, L.
Modern algebra and mathematical logic. 1052
Nominalism. 1053
Henrici, P.
Weitere Bemerkung zu $\int \exp[b(x + a \cos x)]dx$. 589
Product of two Whittaker functions. 872
Henriksen, M., and Isbell, J. R.
Continuity of roots of an equation. 1107
Herget, P.
*Equation $d^2P/dr^2 = P \cdot F(r)$ using Type 601 Multiplying Punch. 93
Herglotz, G.
Greensche Funktion der Wellengleichung. 176
Hermans, J. J., and Ullman, R.
Statistics of stiff chains. 664
Hermes, H.
*Concept d'axiomatisabilité. 1051
Hernandez, E. J.
Probability laws of Laplace-Gauss and Cauchy. 59
Herrick, S.
*Tables for rocket and comet orbits. 1131
Herriot, J. G.
Double Fourier series. 267
Herrmann, A.
Poincaré'sche Formel des Matrizencalcüls. 277
Eigenwerte einer Matrix. 1129
Herrmann, H.
*Übungen zur projektiven Geometrie. 308
Matrizen als projektive Figuren. 494
Projektive Konfigurationen. 786
Hersch, J.
Longueurs extrémales, mesure harmonique et distance hyperbolique. 262
Hersom, S. E., and Selig, K. L.
General purpose differential analyser. II. 211
Herstein, I. N. (Cf. Chowla, S.)
Solow's "Structure of linear models." 302
Theorem of Jacobson. III. 613
Theorem on rings. 719
Subgroups in division rings. 1056

Hervé, M.
Mémoire récent de Noshiro. 460
Fonctions fuchsiennes de deux variables complexes. 633
Herz, J.-C.
Idéaux semi-premiers ou parfaits. 10
Systèmes de polynomes différentiels. 349
Pseudo-algèbres de Lie. I, II. 1057
Herzberger, M.
Diapoint coordinates. 225
Herzberger, M., and Marchand, E.
Image error theory. 225
Herzog, E. R.
Sphärisch-trigonometrische Hauptsätze. 785
Herzog, F., and Piranian, G.
Sets of convergence of Taylor series. II. 738
Hesselbach, B.
Konstruktion eines euklidischen E^3 in einem konformen C^4. 207
Hestenes, M. R. See Rosser, J. B.
Hestenes, M. R., and Karush, W.
Solutions of $Ax = \lambda Bx$. 236
Hewitt, E.
Integration on locally compact spaces. I. 362
Integral representation of linear functionals. 545
Measures in Boolean algebras. 854
Linear functionals on almost periodic functions. 882
Finitely additive measures. 964
Inversion of Fourier-Stieltjes transforms. 976
Hewitt, E., and Zuckerman, H. S.
Integration in locally compact spaces. II. 362
Heyman, J., and Nachbar, W.
*Limit design of structures. 1041
Hida, K.
Flow of compressible fluid past spheroid. 814
Hiedemann, E., und Spence, R. D.
Relaxationserscheinungen. 514
Higman, Graham.
Ordering by divisibility. 238
Problem of Takahasi. 947
Hijikata, K. See Ishiguro, E.
Hildebrandt, T. H.
Integration in abstract spaces. 735
Hildreth, C.
Alternative conditions for social orderings. 668
Hill, J. D.
Summability methods defined by Riemann sums. 1078
Hill, R.
Discontinuous plastic states. 821
Hille, E.
From Abel to Zermelo. 523
Linear second order differential equations. 557
*Integration problem for Fokker-Planck's equation. 758
Semi-groups and conjugate functions. 882
Hillel, Y. Bar-. See Bar-Hillel, Y.
Hillman, A.
Differential algebra of single differential polynomial. 444
Hilton, P. J.
Hopf invariant and homotopy groups of spheres. 306
Hinčin, A. Ya. (Cf. Gnedenko, B. V.)
Limit theorems for sums of positive random quantities. 60
Simplest linear continuum. 234
Classes of equivalent events. 293
Hinds, A. K., and Whyburn, W. M.
Non-self-adjoint differential system. 556
Hines, C. O.
Reflection of waves from varying media. 875
Magneto-hydrodynamic formulae. 934
Hiong, King-Lai.
Croissance des fonctions holomorphes. 741
Fonctions holomorphes dans le cercle-unité. I, II. 859
Hiramatu, H.
Projective collineations. 585
Affine collineations. 1016
Hirsch, G. (Cf. Gillis, P. P.)
Invariants attachés aux sections dans les espaces fibrés. 1004
Hirsch, K. A. See Clowes, J. S.
Hirschman, I. I., Jr.
Heat equation. 172
Hirschman, I. I., Jr., and Widder, D. V.
Quasi-analytic functions. 255
Hitosi, H. See Yano, K.
Hitotumatu, S.
Cousin problems for ideals. 37
Maximal ideals of analytic functions. 264
Multiple power series. 973
Hjalmars, S. See Brulin, O.
Hjelmslev, J.
*Foundation for projective geometry. 196
*General foundations of geometry. 677
La géométrie sensible. III. 1114
Hlavatý, V.
Géométrie différentielle de contact. 206
Unified theory of relativity. I, II. 213, 1132
Unified theory of relativity. A, B. 416, 505
Schrödinger final affine field laws. 505
Einstein's two unified theories of relativity. 1132
Hlavatý, V., and Sáenz, A. W.
Uniqueness theorems in unified theory of relativity. 1132
Hlawka, E.
Theorie des Figurengitters. 540
Hobson, E. W., Hudson, H. P., Singh, A. N., and Kempe, A. B.
Squaring the Circle and other monographs. 1114
Hochschild, G., and Serre, J.-P.
Cohomology of group extensions. 619
Cohomology of Lie algebras. 943
Hodge, P. G., Jr. (Cf. Prager, W.)
Brownian motion of coupled systems. 62
Hodge, W. V. D.
*The theory and applications of harmonic integrals. 2d ed. 500
Obituary: G. Castelnuovo. 524
Obituary: E. Cartan. 524
Hodges, J. L., Jr. (Cf. Brownlee, K. A.)
Extremal problem of geometry. 495
Hodges, J. L., Jr., and Lehmann, E. L.
Reaching statistical decisions. 299
Hodges, J. L., Jr., and Rosenblatt, M.
Recurrence-time moments in random walks. 886
Hoeffding, W.
Average sample number of sequential test. 777
Expected values of order statistics. 887
Hoenen, P.
Noetics of geometry. 5
Hoffman, A. J.
Cyclic affine planes. 196
Systems of linear inequalities. 455
Hoffman, A. J., and Wielandt, H. W.
Spectrum of a normal matrix. 611
Hoffmann, B.
Dirac's new classical theory of electrons. 228
The relativity of size. 821
Similarity theory of relativity. 821
Hoffmann, T. A.
Theory of solids. III, IV, V. 830
Höfinger, E.
Hypergeometrische Funktionen. 372
Laplacesche Differentialgleichung. 874
Hofmann, J. E. (Cf. Becker, O.)
Parabel- und Hyperbelquadratur im Wandel der Zeiten. 609
Problème de Roberval. 833

Hogarth, J. E., and McCrea, W. H.
Relativistically rigid rod. 416
Hohenberg, F.
Lilienthalsche Flächenpaare. 203
Komplexe Erweiterung der Schraublinie. I, II. 203, 684
Höhler, G.
Neue Theorie des Elektrons von Dirac. 117
Hohlov, R. V.
Associated Laguerre functions. 373
Høiland, E.
Horizontal motion in a rotating fluid. 512
Hollingsworth, C. A.
Long random coils. 486
Holmberg, B.
Potential determined from asymptotic phase. 374
Holme, O.
Lifting surface with continuous distribution of vorticity. 103
Holms, A. G.
Relaxation method for thermal stress. 210
Holyoke, T. C.
Multiply transitive permutation groups. 616
Homma, Tatsuo.
Continuous functions. 257
Homma, Tatsuo, and Terasaka, H.
Plane translation of Brouwer. 1003
Homma, Tsuruchiyo.
Asymptotic independence of order statistics. 64
Limit distributions of ranges. 569
Honda, K.
Finite groups whose Sylow groups are cyclic. I, II. 445, 1059
Hönig, C. S.
*Method of refinement of topologies. 669
Hönl, H.
Das Mach'sche Prinzip. 528
Hopf, E.
Remarks on paper by D. Gilbarg. 279
Linear elliptic differential equations of second order. 280
Anfangswertaufgabe für die hydrodynamischen Grundgleichungen. 327
Inequality for minimal surfaces. 1119
Hopf, H.
Zusammenhänge zwischen Topologie und Metrik. 678
Anwendungen der Topologie auf die Algebra. 720
Hopf, H., und Voss, K.
Flächentheorie im Grossen. 583
Hopkins, H. G.
Plastic instability of plates. 930
Hopkins, H. H.
Diffraction theory of optical images. 1042
Horak, H. G.
Transfer of radiation. 804
Hori, S.
Well-ordered S-matrix. 708
Horn, A.
Completion of subset of complete lattice. 1107
Hornich, H.
Elliptische Differentialgleichungen. 279
Hornoch, A. Tárczy-. See Tárczy-Hornoch, A.
Horton, G. K., and Sharp, R. T.
Approximate wave functions. 694
Horváth, J.
Prime numbers. I, II, III. 726
Fonctions conjuguées à plusieurs variables. 747
Horváth, J. I., und Moór, A.
Einheitliche Feldtheorie und Finslersche Geometrie. 914
Horvay, G.
End problem of rectangular strips. 819
Horvitz, D. G., and Thompson, D. J.
Sampling without replacement. 777
Hosemann, R., und Bagchi, S. N.
Algebra physikalisch beobachtbarer Funktionen. I. 1072
Houthakker, H. S. See Tobin, J.
Hovanskiĭ, A. N. (Cf. Smolyakov, P. T.)
Identities connected with Bernoulli numbers. 138
Numerical solution of nonlinear differential equation. 323
Approximate solution of a transcendental equation. 323
Generalization of Abel's integral equation. 562
Hove, L. Van. See Van Hove.
Hristov, Hr. Ya. See Christov, Chr.
Hruška, V.
Remarque sur la note de J. Seitz. 6
Hsiang, Fu Cheng.
Integro-jump of a function and its Fourier coefficients. 635
Hsiao-Lan Kuo. See Kuo, Hsiao-Lan.
Hsieh-ching Hsu. See Hsu, Hsieh-ching.
Hsien-Chih Liu. See Liu, Hsien-Chih.
Hsien-Chung Wang. See Wang, Hsien-Chung.
Hsiung, Chuan-Chih.
Curves in Riemannian space. 498
Hsu, Hsieh-ching. See Rouse, H.
Hsu, L. C.
Asymptotic integral. 255
Asymptotic integration. 965
Hu, Sze-Tsen. Homotopy properties of space of continuous paths. II. 194
Cohomology theory in topological groups. 449
Cohomology relations in spaces with a topological transformation group. 573
Local structure of finite-dimensional groups. 724
Cohomology relations in principal fiber spaces. 1112
Hua, Loo-Keng.
Automorphic functions of several complex variables. 633
Total matrix ring over a non-commutative field. 1056
Hua, L. K., and Reiner, I.
Projective unimodular group. 133
Huang, M. K. See Conway, H. D.
Huang, M. K., and Conway, H. D.
Bending of uniformly loaded rectangular plate. 516
Huang, Su-Shu.
Variational method for radiative transfer. I, II, III. 765
Absorption lines in stellar atmospheres. 804
Huard de la Marre, P.
Étude rhéoélectrique de problèmes d'infiltration. 211
Huber, A.
Wachstumseigenschaften subharmonischer Funktionen. 167
Integrale der Gibbs-Duhem-Margules'schen Gleichung. 649
Graphische Berechnung von Polynomen. 1127
Huber, Heinz.
Abbildungen Riemannscher Flächen in sich. 862
Huber, K.
*Leibniz. 524
Hudson, H. P. See Hobson, E. W.
Hufford, G. A.
Wave propagation through inhomogeneous medium. 932
Hugenholtz, N. M.
Tops rising by friction. 421
Hughes, J. V.
Sphere suspended on a string. 506
Hukuhara, M.
Courbes intégrales d'un système différentiel ordinaire. 470
Théorème de Kneser. 981
Humbert, P.
Fonctions de Bessel. 747
Fonction de Mittag-Leffler. 872
Humblet, J.
Niveaux virtuels des noyaux atomiques. 171
Hung Ching Chow. See Chow.
Hunt, G. A.
Random Fourier transforms. 465
Hunter, H. E. See Siegel, K. M.

Hunter, H. F. See Lapin, E.
Hunter-Tod, J. H. See Robinson, A.
Huppert, B.
Produkt von zyklischen Gruppen. 1059
Huron, R.
Lemme de representation conforme. 549
Répartition des décimales de rang donné. 567
Problème de représentation conforme de Helmholz. 695
Hurst, C. A.
Feynman-Dyson technique. 607
Divergent perturbation expansion in field theory. 607
Husimi, K.
Elementary quantum mechanics. I. 1047
Hutcherson, W. R.
Invariant curves of order eight. 1116
Huygens, C.
*Treatise on light. 524
Hvedelidze, B. V. (Cf. Karcivadze, I. N.)
Properties of improper integrals. 181
Singular integral equations. 181
Riemann's problem and singular integral equations. 181
Hyers, D. H., and Ulam, S. M.
Approximately convex functions. 254
Hylleraas, E.
Two-electron angular wave functions. 872
Hyrenius, H.
Sampling from non-normal universes. 487
Hyslop, J. M. (Cf. Boyd, A. V.)
Strong summability of series. 368

Ibragimov, I. I.
Best approximation. I, II. 1083
Ibrahim, E. M.
Plethysm of S-functions. 243
Ibrašev, H. I.
Denumerable system of differential equations. 754
Iglesias Garrido, T.
Three body problem. 324
Ide, S.
Curves in an n-dimensional space. II. 586
Iglisch, R., und Tietz, H.
Kinematik des starren Körpers. 694
Igusa, J.
Picard varieties. 81
Theorem of Lueroth. 81
Varieties of the classical groups. 201
Normal point and tangent cone of an algebraic variety. 580
Domain of regularity. 865
Iijima, T.
Electromagnetic fields in a circular cylinder. II. 823
Iino, R.
Non-linear partial differential equation. 693
van IJzeren, J.
Independence of mean and variance of samples. 775
Ikeda, M.
Theorem of Kaplansky. 614
Quasi-Frobenius rings. 719
Theorem of Gaschütz. 1057
Ikeda, Mineo.
Unified field theory of Einstein and Schrödinger. 97
Special spherically symmetric space-times. 505
Invariancy of some equations of physics. 603
Ikehara, S.
Method of Wiener in nonlinear circuit. 1044
Ikenberry, E.
Conservation of systems in phase space. 521
Ikenberry, E., and Rutledge, W. A.
Expansions in Hermite polynomials. 466
Ilić-Dajović, M. See Ylitch-Daïovitch, M.
Il'in, V. P.
Convergence of variational processes. 25

Illingworth, C. R.
Laminar boundary layer of compressible fluid. 813
Boundary layer of rotating body of revolution. 919
Imai, I., Kaji, I., and Umeda, K.
Mapping functions of airfoils into the unit circle. 102
Inaba, E.
Normal algebraic number fields. 139
Relatively complete fields. 251
Primary lattices. 717
Inaba, M.
Fixed points and differential equations. 882
Inagaki, T.
Ensemble partiellement ordonné. 27
Contribution à la topologie. I, II. 68, 1001
Inagaki, T., and Sugawara, M.
Compactification of topological spaces. 489
Inan, M.
Shear center of semi-elliptical cross-section. 926
Infantozzi, C. A.
Covering properties in (V) spaces. 571
Infeld, L.
New Einstein theory and equations of motion. 97
Coordinate conditions and equations of motion. 806
Inglada, V.
Pairs of related triangles. 674
Ingleton, A. W.
The Lorentz transformation. 807
Ingraham, R. L.
Conformal relativity. I, II. 416
Spinor relativity. 806
Linear connection in spin-collineation space. 1124
Inkeri, K.
*Non-homogeneous binary quadratic forms. 730
Verschärfungen eines Minkowskischen Satzes. 1065
Inönü, E., and Wigner, E. P.
Representations of the Galilei group. 352
Contraction of groups and representations. 1061
Inoue, K. See Muto, T.
Inoue, N.
Flow of perfectly plastic materials. 931
Mathematical theory of plasticity. 931
Soil mechanics and plasticity. I, II. 931
Application of supersonic flow theory to plasticity theory. 1148
Inzinger, R.
Projektiv invariante Konfiguration von Linienelementen. 85
Geometrische Realisierung des Hilbertschen Raumes. 184
Faltungsgeometrie im Hilbertschen Raume. 989
Irani, R. A. K.
Arabic alphabetical system. 121
Irwin, B. W. See Parrish, W.
Isaacs, G. L.
M. Riesz's mean value theorem. 731
Isaacs, R.
*Monodiffric functions. 633
Optimal horse race bets. 992
Isaacson, E. See Courant, R.
Isakovič, M. A.
Scattering of waves from a rough surface. 700
Isbell, J. R. (Cf. Henriksen, M.)
Homogeneous spaces. 1001
Iseki, Kanesiroo.
Theory of partitions. 139
Fundamentaldiskriminanten mit der Klassenzahl Zwei. 140
Theorem of Phragmén-Lindelöf type. 155
Imaginary quadratic fields of class-number one or two. 452
Divisor problem involving prime numbers. 536
Imaginärquadratische Zahlkörper der Klassenzahl Eins oder Zwei. 537
Iseki, Kiyoshi.
Theorem of Stone-Samuel. 529
Distributive lattices. 717

Iseki, Kiyoshi. (Continued)
Lattice theory. 717
Conjugate mapping for quaternions. 717
Radical in topological rings. 720
B^*-algebras. 768
Demi-groupes. 842
Anneaux normés de Hilbert. I. 883
Ishaq, M. See Shah, S. M.
Ishiguro, E., Hijikata, K., Arai, T., and Mizushima, M.
Tables for calculation of molecular integrals. I, II, III. 799
Ishiguro, K., and Katô, T.
Reflection and transmission of a multi-layer film. 1148
Isida, M. D.
Linear regression estimate. 487
Isiwata, T.
Topological groups and ordered rings. 718
Iškova, A. G.
Bending of a circular plate. 701
Itô, H.
Density matrix in Hartree-field. I. 436
Theory of continuous information. 568
Variational principle in hydrodynamics. 1136
Itô, J.
Function whose imaginary part on the unit circle changes its sign. 34
Itô, K.
The stochastic integral. 1101
Itô, N.
Factorizable groups. 13
Theorem of Rédei and Szép concerning p-groups. 14
Remarks on Grün's paper "Beiträge zur Gruppentheorie. III." 14
Theorem of H. F. Blichfeldt. 842
II-structures of finite groups. 946
Itô, S.
Brownian motions in a topological group. 187
Unitary representations of linear groups. II. 533
Ivanenko, D. See Sokolov, A.
Ivanenko, D., and Kolesnikov, N.
The electrino hypothesis. 828
Ivanenko, D., Kurdgelaidze, D., and Larin, S.
Nonlinear mesodynamics. 827
Ivanov, V. K.
Uniform approximations of continuous functions. 254
Ivanović, B.
Déviation standarde pour une répartition quelconque. 293
Ivašev-Musatov, O. S.
Fourier-Stieltjes coefficients of singular functions. 163
Ives, H. E.
Fitzgerald contraction. 913
Iwahori, N.
Non-representability of real linear groups. 447
Iwamura, T.
Closed mapping and compactness. 571
Iwasaki, K.
Theorem of Ankeny on Dirichlet series. 622
Iwasawa, K.
Rings of valuation vectors. 849
Hilbert's fifth problem. 1061
Iwasawa, K., and Tamagawa, T.
Corrections: Automorphisms of a function field. I, II. 139, 356
Iwata, G.
Realization of special contact transformations. 603
Orthogonal functions in the complex domain. 630
Electromagnetic fields in vacuo. II. 1134
Iyer, P. V. Krishna. See Krishna Iyer.
Iyer, V. Ganapathy. See Ganapathy Iyer.
Izaki, M.
Convergence of integral. 888
Izmaĭlov, V. D.
Surface of six-dimensional affine space. 319
Izumi, H.
Infinitesimal transformation in line element space. 1017
Izumi, S.
Law of the iterated logarithm. 553
Strong law of large numbers and gap series. 868
Izumi, Y.
Notion de la perfection. 936
Begriff der ω-Vollständigkeit. 1052

Jackson, F. H.
Inclusion theorems for summability matrices. 744
Jackson, J. R.
Homotopy groups of function spaces. 73
Jackson, L.
Maximum principle for subharmonic functions. 373
Jackson, L. K. See Beckenbach, E. F.
Jacobsen, L. S.
Second-order ordinary differential equations. 502
Jacobson, N.
Lie algebras of linear transformations. 241
Operator commutativity in Jordan algebras. 531
*Lectures in abstract algebra. II. 837
Jacobsthal, E. (Cf. Brun, V.)
Arithmetisches und geometrisches Mittel. II. 852
Simultane Differentialgleichungen. 874
Klassen-invariante linearer Abbildungen. I. 968
Jacot, H.
Prévision et filtrage des séries aléatoires. 188
Jacotin, M .L. Dubreil-. See Dubreil-Jacotin.
Jaeckel, K.
Weissingersche Zirkulationsgleichung. 812
Jaeger, A.
Adjunction of subfield closures to ordered division rings. 129
Differentiationen für Körper beliebiger Charakteristik. 130
Gewöhnliche Differentialgleichungen in Körpern von Primzahlcharakteristik. 530
Partielle Differentialgleichungen in Körpern von Primzahlcharakteristik. 530
Jaeger, J. C.
Conduction of heat with periodic boundary conditions. 801
Jaffard, P.
Complétion d'un espace uniforme. 69
Anneaux du type de Dedekind. 613
Jaffé, H. H.
Overlap integrals. 872
Jaiswal, J. P.
Meijer transform. I, II, III, IV. 43, 640, 870
Null geodesics and cones in gravitational fields. 592
Jáky, J.
Slip lines in soil. 931
James, I. M.
Factor spaces. 1110
James, R. C.
Infinite series and Taylor and Fourier expansions. 369
Janekoski, V.
Déterminant de Gram. 435
Janković, Z.
Two recurrence formulae. 974
Jánossy, L.
Laplace transform in probability theory. 388
Stochastic process from theory of electron multiplier. 388
Passage of wave packet through a potential barrier. 437
Interpretation of Lorentz transformation. 506
Interpretation der Lorentz-Transformation. 913
Janssen, E. See Young, G. B. W.
Jarden, D.
Composite n for which $2^{n-1} \equiv 1 \pmod{n}$. 846
Recurring sequences of order 3. 987

Jardetzky, W. S., and Press, F.
Rayleigh-wave coupling to atmospheric compression waves. 112
Järnefelt, G.
Differential equations of quantum mechanics. 944
Järnefelt, G., and Kustaanheimo, P.
*Observation on finite geometries. 1008
Jauch, J. M. See Coester, F.
Jaumotte, A.
Formule de Kutta et Joukowski. 1029
Jeffreys, B.
Classification of multipole radiation. 436
Jeffreys, H.
Thermal instability in a sphere. 94
Halving the interval in a table. 906
Jeger, M.
Topologische Gesichtspunkte in Nomographie. 1130
Jehle, H.
Two-component wave equations. 435
Jehne, W.
Idelklassenfaktorensysteme und verschränkte Produkte. 729
Jenkins, J. A.
Values omitted by univalent functions. 967
Jenkins, J. A., and Morse, M.
Contour equivalent pseudoharmonic functions and pseudo-conjugates. 46
Jensen, A.
*Distribution patterns composed of exponential distributions. 664
Random sampling and theory of variance. 777
Jensen, H.
A short geometric proof. 895
Jessen, B.
Strong differentiation. 855
Jha, P.
Curves having a given curve for locus of centre of spherical curvature. 1013
Joga Rao, C. V. See Kumar, S.
Johansson, I.
*Present-day topology. 571
Johnson, C. P., Jr.
Unified field theory. 591
Johnson, N. L. (Cf. David, F. N.)
Approximations to probability integral. 485
Analysis of variance power functions. 667
Johnson, R. E.
Representations of prime rings. 839
Johnson, W. H.
*Numerical solution of simultaneous differential equations. 93
Jonas, H.
Isometrische Paare Tschebyschefscher Netze. 84
Scherksche Minimalfläche. 497
W-Kongruenzen mit ebener Mittelfläche. 793
Jones, B. W.
Correction: "Indefinite ternary quadratic forms." 850
Jones, C. W.
*A short table for the Bessel functions $I_{n+1/2}(x)$, $2\pi^{-1}K_{n+1/2}(x)$. 500
Reducible non-linear differential equations. 875
Jones, D. S.
Diffraction problems. 474
Diffraction by an edge and by a corner. 518
Surface distribution of charge near an edge. 822
Diffraction by a semi-infinite plate. 1043
Jones, F. B.
Aposyndetic and non-aposyndetic continua. 71
Separation of the set of pairs of a set. 544
Jones, R. T.
Minimum drag of airfoils. 511
Jones, W. P.
Generalized Theodorsen function. 103
Jongmans, F.
Formes harmoniques attachées à une variété kählérienne. 904
Variétés kählériennes. 904
Jordan, K.
Statistical inference. 65
Jordan, P.
Erhaltungssätze der Physik. I, II. 114, 603
Axiomatische Begründung der Quantenmechanik. 434
Birkhoffscher Satz in der Gravitationstheorie. 505
Wirkungsquantum und Elementarlänge. 841
Integration der kosmologischen Gleichungen. 915
*Schwerkraft und Weltall. 1022
Jossa, F.
Funzione delle deformazioni. 924
Jost, R., and Kohn, W.
Construction of potential from a phase shift. 556
Jowett, G. H.
Simply constructed adding machine. 504
Juan, R. San. See San Juan, R.
Juncosa, M. L., and Young, D. M.
Approximation to Fourier coefficients. 1081
Jung, H.
Plattenstatik. 1144
Jurkat, W.
Rieszsche Mittel. 866
Jurkat, W., and Peyerimhoff, A.
Mittelwertsätze und Vergleichssätze für Matrixtransformationen. 158

Kac, A. M.
Criterion of quality of regulation. 372
Kac, A. M., and Čekmarev, A. I.
Computation of Hurwitz determinants. 1128
Kac, M. See Berlin, T. H.
Kacenelenbaum, B. Z.
Wave guides with nonideal walls. 823
Kadec, M. I.
Broken lines in space. 866
Kadison, R. V. (Cf. Fuglede, B.)
Infinite unitary groups. 16
Schwarz inequality and algebraic invariants for operator algebras. 481
Kadison, R. V., and Singer, I. M.
Representations of connected groups. 17
Kaempffer, F. A.
Gravitational waves. 1023
Kagan, V. F.
*The Fundamentals of the Theory of Surfaces in Tensor Presentation. I, II. 202
Interpretations of non-Euclidean geometry. 575
*Archimedes. Short outline of his life and work. 1050
Kahan, T.
Méthodes variationnelles pour collisions et diffraction. 877
Kahane, J. P.
Quasi analyticité des fonctions moyenne-périodiques. 976
Kähler, E.
*Corps purement algébriques. 900
Kai Lai Chung. See Chung.
Kaji, I. See Imai, I.
Kakutani, S.
Quadratic diameter of metric space and its application. 149
Kalandiya, A. I.
Bending of an elastic plate. I, II. 334, 515
Uniqueness problem for elliptic equations. 474
Kalašnikov, M. D.
Summability of infinite products. 1079
Kales, M. L.
Modes in wave guides. 1149
Kalicki, J.
Tarski's matrix method. 344
Test for equality of truth-tables. 344

Kalin, T. A.
*Formal logic and switching circuits. 1044
Kalinin, S. V.
Discontinuous flow about an obstacle. 423
Kalinovskaya, S. S.
Mean power approximations to best approximations. 465
Kalisch, G. K. See Gelbaum, B. R.
Kalkanes, I.
Life insurance with unequal insured capital. 887
Källén, G.
Renormalization constants in quantum electrodynamics. 435
Kalmár, L.
Markov-Post theorem. 528
New results in foundations of mathematics. 528
Reduction theory of the decision problem. IV. 713
Reduction of the decision problem. 1051
Kaloujnine, L. (Cf. Krasner, M.)
Produit complet des groupes. 242
p-Sylowgruppen symmetrischer Gruppen. 617
Kamata, K. See Nishimura, J.
Kamefuchi, S. See Sakata, S.
Kamefuchi, S., and Umezawa, H.
Renormalization in quantum electrodynamics. 435
Kamenomostskaya, S. L.
Equations of elliptic and parabolic type with small parameter. 877
Kametani, S.
Fundamental theorem of normed fields. 240
Elementary treatment of integration. 256
Mean value theorem. 625
Kamke, E.
Quasilineare Differentialgleichung 1. Ordnung. 375
Kammerer, A.
*Propriétés mécaniques des solides réels et la théorie de l'élasticité. 430
Stabilité de l'équilibre élastique. 1147
Kampé de Fériet, J.
Équation de la chaleur. I, II. 173, 878
Autocorrélation d'une fonction sur un groupe. 995
van Kampen, N. G.
S-matrix and causality condition. I. 828
Kamynin, L. I.
Uniqueness theorems for the heat equation and for difference-differential equations. 172
Finite-difference process for heat conduction equation. 283
Method of finite differences for heat equation. 1090
Kanagasabapathy, P.
Product of two linear forms. 252
Kanellos, S. G.
Conditional distribution. 566
Kanitani, J.
Surfaces osculatrices à un espace à connexion projective majorante. 208
Groupe d'holonomie. 408
Kannan, M. B. See Matthai, A.
Kanô, S.
Prediction problem of stationary stochastic process. 889
Kanold, H. J.
System von zwei diophantischen Gleichungen. 20
Bemerkungen über befreundete Zahlen. 724
Abschätzungen bei Kreisteilungspolynomen. 728
Kantorovich, L. V.
Functional analysis and applied mathematics. 766
Kapica, P. L.
Heat conduction and diffusion in a fluid medium. 107
Kaplan, C.
Transonic flow past a wave-shaped wall. 425
Nonlinear differential equation for transonic flow. 699
Kaplan, E. L.
Tensor notation and sampling cumulants of k-statistics. 486
Kaplan, S.
Pontrjagin duality. II. 245
Cartesian products of reals. 1002
Kaplan, W.
*Advanced calculus. 959
*Functions of a complex variable. 959
Close-to-convex schlicht functions. 966
Kaplansky, I.
Symmetry of Banach algebras. 58
Group algebras in the large. 58
Results on abelian groups. 133
Algebras of type I. 291
Rings of operators. 291
Locally compact rings. III. 348
Dual modules over a valuation ring. I. 720
Products of normal operators. 883
Kaplansky, I., and Mackey, G. W.
Generalization of Ulm's theorem. 128
Kappos, D. A.
Äquimessbare Funktionen. 256
Kaprekar, D. R.
*Cycles of recurring decimals. 247
Reversal of digits. 846
Kapuano, I.
Surfaces homéomorphes à un disque. 784
Courbes dont l'homéomorphie avec une circonférence se prolonge à R^3. 1003
Kar, S. C.
Quantendynamik des Elektrons. I. 607
Karadžić, L.
Théorème inverse-0. 158
Karal, F. C.
Sphere moving parallel to plane boundary. 696
Analogous acoustical impedance for discontinuities. 923
Karamata, J.
Abschnitte einer Potenzreihe. 265
Développements asymptotiques et polynomes de Legendre. 372
Karapandjitch, D.
Equations linéaires aux dérivées partielles. 1089
Karaseva, T. M.
Inverse Sturm-Liouville problem. 1088
Karcivadze, I. N.
Behavior of an integral of Cauchy type. 763
Karcivadze, I. N., and Hvedelidze, B. V.
Transformation formula. 152
An inversion formula. 762
Karhunen, K.
Linear methods in calculus of probabilities. 387
*Extrapolationsproblem im Hilbertschen Raum. 663
Interpolation von stationären zufälligen Funktionen. 772
Karlin, S. See Dresher, M.
de Kármán, T., et Fabri, J.
Écoulement le long d'une paroi ondulée. 217
Karol', I. L.
Equation of mixed type. I, II. 757
Karp, S. N. See Bazer, J.
Karpelevič, F. I.
Group of complex unimodular matrices. 245
Karreman, G.
Mathematical biology of blood circulation. 781
Karunes, B.
Infinite plate containing two unequal circular holes. 429
Dislocation in a semi-infinite plate. 701
Karush, W. (Cf. Hestenes, M. R., Rosser, J. B.)
Index of extremal arc. 662
Isoperimetric problems. 662
Method of solving linear problems. 1127
Karush, W., and Young, G.
Temperature rise behind surface defect. 750
Kašanin, R.
Schéma de Banachiewicz. 501

Kaščenko, Yu. D. See Kudryavcev, L. D.
Kasch, F.
Primitives Element bei Schiefkörpern. 239
Erzeugung separabler Algebren. 614
Riccatische Differentialgleichung in Körpern der Charakteristik p. 841
Endomorphismenring eines Vektorraums. 941
Kashiwagi, S. See Ozaki, S.
al-Kāšī, G. B. M.
Der Lehrbrief über den Kreisumfang. 1051
Kasner, E., and De Cicco, J.
Potential of a sphere of E_N embedded in E_n. 555
Katětov, M.
Measures in fully normal spaces. 27
Remarks on Boolean algebras. 237
Functions in topological spaces. 304
*What is the logical structure of mathematics? 441
Linear operators. II. 565
*Dimension of nonseparable metric spaces. 1108
Kato, Tosio. (Cf. Ishiguro, K.)
Points singuliers des équations différentielles ordinaires. 274
Singular points of ordinary differential equations. 274
Kato, Tosio. (Cf. Ishiguro, K.)
Inequalities for linear operators. 766
Perturbation theory of closed linear operators. 990
Perturbation theory of semi-bounded operators. 990
Katsurada, Y. See Kawaguchi, A.
Katz, L.
Number of isolates in a social group. 59
Katz, L., and Olkin, I.
Matrices defined by operation of pseudo-transposition. 939
Kaufman, H. See Sternberg, R. L.
Kaufmann, A. See Denis-Papin, M.
Kawabe, R. See Umezawa, H.
Kawada, Y.
Note on integration. 27
Fundamental notions of probability theory. 293
Derivations in simple algebras. 348
*Theory of differential forms—Grassmann algebras and Lie groups. 410
Kawaguchi, A.
Theory of non-linear connections. I. 585
Kawaguchi, A., and Katsurada, Y.
Areal spaces. IV. 88
Connection in an areal space. 586
Kawaguchi, A., and Tandai, K.
Areal spaces. V. 586
Kawaguchi, Michiaki, Jr.
Generalization of the extensor. 690
Multiple parameter extensor. 690
Kawaguti, Mitutosi.
Viscous shear flow. 104
Velocity distribution over elliptic cylinder. 330
Kawai, N. (Cf. Nomura, Y.)
Rayleigh disc. 513
Kawai, R.
Riemann-Roch-Weil's theorem. 580
Kawamura, R.
Reflection of wave at interface. 425
Kawamura, T.
Detached shock wave. 425
Kawasaki, T.
Potential theory of aerofoils. 696
Potential theory of lattices of aerofoils. 696
Kawata, T.
Central limit theorem and moment generating function. 294
Kay, I.
Diffraction by a wedge. 1142
Kazami, A.
Estimates of parameter in stationary Markoff process. 569
Kearsley, M. J.
Curves of constant diameter. 198
Kellis-Borok, V. I.
Frequency equation of multilayered elastic medium. 929
Keilson, J., and Storer, J. E.
Brownian motion, Boltzmann's equation, and the Fokker-Planck equation. 296
Keldyš, L. V.
*Monotone mappings of the cube. 71
Keldyš, L. V., and Novikov, P. S.
Work of Luzin in descriptive theory of sets. 1051
Keller, G.
Astronomical "seeing" and atmospheric turbulence. 1132
Keller, G., and Fenwick, M.
Tabulation of incomplete Fermi-Dirac functions. 905
Keller, J. B.
Scope of the image method. 877
Finite amplitude sound waves. 923
Parallel reflection by plane mirrors. 1042
Keller, J. B., and Goldstein, E.
Water wave reflection. 810
Keller, O.-H.
Anschaubares Modell der projektiven Ebene. 784
Kelley, J. L. (Cf. Fell, J. M. G.)
Commutative operator algebras. 481
Kelley, J. L., and Vaught, R. L.
Positive cone in Banach algebras. 883
Kelly, J. B.
Factorization of polynomials. 977
Kelly, L. M.
Geometry of normed lattices. 494
Kelly, P. J. See Busemann, H.
Kelly, P. J., and Paige, L. J.
Perpendicularity in Hilbert geometries. 308
Kel'man, V. M., and Rodnikova, I. V.
Motion of charged particles. 115
Kemhadze, S. S.
Regularity of p-groups for $p=2$. 350
Determination of regular p-groups. 722
Uniqueness bases in infinite regular p-groups. 1060
Kemp, N. H.
Lift and circulation of airfoils. 426
Kempe, A. B. See Hobson, E. W.
Kempner, J., and Pohle, F. V.
Critical time for viscoelastic columns. 1148
Kendall, D. G.
Mathematical model of bacterial growth. 394
Kendall, M. G.
Regression, structure and functional relationship. II. 66
Samples from a finite population. 389
Kennard, E. H.
New approach to shell theory. 817
Kepler, J.
*Epitome of Copernican astronomy. Books IV and V. 832
*The harmonies of the world. 832
Kerimov, M. K.
Discontinuous variational problems. 291
Two-dimensional discontinuous problems of the calculus of variations. 885
Kern, E. R.
Theory of risk. 887
Kerr, E. (Cf. Allen, A. C.)
Positive harmonic functions. 470
Kertész, A.
Decomposability of abelian p-groups. 617
Abelian torsion groups. 945
Kertész, A., and Szele, T.
Abelian groups. 132
Smallest distance of two lines. 785
Ketskeméty, I.
Verallgemeinerte Kontinuumhypothese. 853

Khalilov, Z. I. See Halilov, Z. I.
Khinchin, A. I. See Hinčin, A. Ya.
Kiefer, J. (Cf. Dvoretzky, A.)
Sequential minimax estimation for rectangular distribution. 487
Wald's complete class theorems. 998
Sequential minimax search for a maximum. 1103
Kiefer, J., and Wolfowitz, J.
Maximum of a regression function. 299
Kierstead, H. A.
Standing waves in a two-layer ocean. 216
Kihara, T.
Second virial coefficient of non-spherical molecules. 231
Kikuchi, S.
Subspace in a Finsler space. 585
Kikukawa, M.
Numerical method for matrices. 501
Kilburn, T. See Williams, F. C.
Kilmister, C. W. (Cf. Bastin, E. W., Stephenson, G.)
Two-component wave equations. 435
Quaternion approach to meson theory. 827
Milner's E-numbers. 1125
Kilpatrick, J. E.
Virial coefficients. 710
Kimball, B. F.
Orthogonal predictors. 1019
Multiple group least squares' problem. 1127
Kimura, T. See Suura, H.
King, E. P.
Control chart for sample means. 297
King, G. W.
*Stochastic methods in quantum mechanics. I, II. 414, 995
King-Lai Hiong. See Hiong.
Kinney, J. R.
Sample functions of Markov processes. 772
Kinokuniya, Y.
On continuum. 735
Stieltjes integration. 736
Mean-position. 852
Operational equations. 870
Operational calculus. 870
Kinoshita, S.
Essential components of set of fixed points. 193
Kirkby, S. See Young, A. D.
Kiro, S. N.
Analytic solutions of $\partial^2 u/\partial x_1 \partial x_2 = f(x_1, \cdots, \partial^2 u/\partial x_{n-1}\partial x_n)$. 52
Kirsch, A. (Cf. Hadwiger, H.)
Zerlegungsgleichheit von Funktionen und Integration in abstrakten Räumen. 28
Kishen, K., and Rao, C. R.
Balanced incomplete block design. 715
Kita, H.
Relativistic two-body problem. 118
Kitagawa, T.
Successive process of statistical inferences. II, III, IV. 390, 997
Random integrations. 457
Successive processes of statistical controls. I. 997
Kito, F.
Differential equation in theory of shells. 648
Kitover, K. A.
Biharmonic functions for problems of theory of elasticity. 1037
Kiuti, M.
Aberration of decentred optical systems. 114
Kivikoski, E.
Kennzeichnung der Kurven. 1010
Kjellberg, B.
Integral functions bounded on a set. 965
Klamkin, M. S.
Clairaut's differential equation and analogous difference equation. 558
Klanfer, L. See Thom, A.
Klee, V. L., Jr.
Critical set of a convex body. 678
Convex bodies and periodic homeomorphisms in Hilbert space. 989
Kleene, S. C.
Gentzen's calculi LK and LJ. 439
Finite axiomatizability in the predicate calculus. 439
*Introduction to metamathematics. 525
Klein, F.
*Elementary mathematics from an advanced standpoint. Arithmetic-algebra-analysis. 1068
Klein, George. See Calderon, A. P.
Klein, G.
Random-walk problem and Brownian motion. 295
Klein, G., et Prigogine, I.
Mécanique statistique des phénomènes irréversibles. I, II. 829
Klein, M. J.
Ergodic theorem in quantum statistical mechanics. 230
Klein-Barmen, F.
Schwach distributive Pseudoverbände. 9
Kleinfeld, E.
Alternative division rings. 129
Simple alternative rings. 614
Kleinman, R. E. See Siegel, K. M.
Kleinwächter, H.
Strahlungsverteilung des elektrischen und des magnetischen Dipols. 338
Elektronenbahnen in speziellen Feldern. 432
Klero, A. See Clairaut, A.
Klimczak, W. J.
Differential operators of infinite order. 966
Klimontovič, Yu. L.
Quantum distribution function. 826
Klingenberg, W.
Affine Differentialgeometrie. I, II. 206
Einspannungsproblem in der Differentialgeometrie. 207
Flächen im projektiven Raum. 316
Affine Schliessungssätzen. 786
Numero degli ordinamenti di un corpo. 1056
Kloot, N. H. See Williams, E. J.
Klotter, K.
*Non-linear vibration problems. 908
Klotter, K., and Pinney, E.
Forced vibrations in nonlinear systems. 647
Klubin, P. I.
Plates on an elastic foundation. 1144
Knaster, B.
Applications of mathematical logic to mathematics. 441
Kneale, W.
*Probability and induction. 59
Kneebone, G. T. See Semple, J. G.
Kneser, H.
Théorie des jeux. 301
Konvexe Räume. 478
Kneser, M.
Primpolynomzerlegung in endlich vielen Schritten. 613
Die Norm einer Algebra. 1058
Knight, A. J.
Surfaces with cyclic intersection groups. 898
K. N. M.
Correlation between two estimators. 190
Knödel, W.
Sätze über Primzahlen. II. 355
Carmichaelsche Zahlen. 1062
Knopp, K.
Zwei Abelsche Sätze. 160
*Elements of the theory of functions. 458

Knopp, K. (Continued)
A-, E_k- und B_k-Summierung. 634
*Problem book in the theory of functions. Vol. II. 1073
Knothe, H.
Isometrische Flächenpaare im elliptischen Raum. 203
Knudsen, H. L.
Definite integrals in antenna theory. 643
Kobayashi, Z.
Type of Riemann surfaces. 157
Kober, H.
Monotone singular function. 24
Extension of rectangle functions. 30
Approximation of function of two real variables. 154
*Dictionary of conformal representations. 156
Kobori, A.
Fonctions multivalentes. 156
Kochendörfer, A. See Seeger, A.
Kochin, N. E.
Wing of circular plan form. I, II. 508
Kochmański, T.
Operations with multidimensional series. 866
Kočina, P. Ya. Polubarinova-. See Polubarinova-Kočina, P. Ya.
Kodaira, K. (Cf. Chow, Wei-Liang.)
Arithmetic genera of algebraic varieties. 82
Riemann-Roch theorem for adjoint systems. I, II. 82, 790
Koehler, F.
Errors in Rayleigh-Ritz method. 1020
Koenig, J. F.
Zeros of polynomials and stability of linear systems. 1082
Kohler, M.
Erhaltungssätze in der allgemeinen Relativitätstheorie. I, II. 416, 913
Feldgleichungen in der allgemein-relativistischen Gravitationstheorie. 913
Kohn, W. (Cf. Borowitz, S., Jost, R.)
Variational methods for periodic lattices. 414
Koiter, W. T.
Torsional vibrations of crankshafts. 430
Partially plastic thick-walled tubes. 1148
Kok, J. C.
Generalization of nine-point circle. 308
Kokareva, T. A.
Analytic solutions of integro-differential equations. 284
Kokoris, L. A.
Power-associative commutative algebras. 11
Koksma, J. F.
Continued fractions. 360
Kolbina, L. I.
Univalent functions. 35
Extremal problems in conformal mapping. 35
Kolchin, E. R.
Picard-Vessiot theory of partial differential fields. 241
Kolčin, N. I.
Radii of curvature of cams. 420
Kolesnikov, N. See Ivanenko, D.
Kolmogorov, A. N. (Cf. Gnedenko, B. V.)
Theory of real numbers. 255
Stationary Markov processes with denumerable number of states. 295
*Convergence of conditional mathematical expectations. 1099
Kolodner, I. I. See Morawetz, C. S.
Koltunov, M. A.
Bending of rectangular plates. 1037
Komatu, Y.
Derivative of a meromorphic function. 364
Gemischte Randwertaufgabe. 374
Functions harmonic in a circle. 374
Konforme Abbildungen vielfach zusammenhängender Gebiete. 969
Mixed boundary value problems. 969
Komatu, Y., and Mori, A.
Conformal rigidity of Riemann surfaces. 969
Komatu, Y., and Nagura, S.
Univalent functions. 1075
Komatu, Y., and Ozawa, M.
Conformal mapping of multiply connected domains. II. 461
Kondo, Kazuo.
Theory of yielding of materials. 821
Kondô, M.
Flot topologique. I. 186
Anneaux des opérateurs sur un espace de Banach. I. 768
Kondô, M., et Tugue, T.
Cribles par rapport aux mesures. 733
Kondrašov, V. I.
Behavior of functions from L'_p on manifolds of different dimensions. 149
König, Heinz.
"Distributionen" von L. Schwartz. 1072
König, H. W.
Eigenschaften elektromagnetischer Wellenfelder. 709
Wellenbild von Mikrovorgängen. 709
König, W. Meyer-. See Meyer-König, W.
Konishi, I.
Uniform topologies in general spaces. 892
Kôno, K.
Order statistics. 190
Double sampling method. 190
Dependency of normal bivariates. 1102
Kontorovič, M. I., and Murav'ev, Yu. K.
Laws of reflection of optics. 337
Kontorovič, P. G., and Mil'man, D. I.
Integer solutions of linear homogeneous equations. 950
Koopman, B. O.
Optimum distribution of effort. 769
Banach algebras. 1097
Markoff chains. 1100
Koopmans, T. C., and Reiter, S.
*Model of transportation. 668
Kopeć, J.
Vector-valued almost periodic functions. 976
Kopineck, H.-J.
Zweizentrenwechselwirkungsintegrale. III. 643
Koppe, H.
Berechnung von Zustandssummen. 710
Kopzon, G. I.
Impact on a compressible ideal fluid. 698
Korenblyum, B. I.
Tauberian theorem for ratio of functions. 866
Korickiĭ, G. V. See Bazilevič, I. E.
Korobov, N. M.
Fractional parts of exponential functions. 143
Diophantine approximations. 144
Normal periodic systems. 144
Non-residues and primitive roots in recurrence series. 846
Problems of Čebyšev type. 852
*Diophantine inequalities. 1067
Korobov, N. M., and Postnikov, A. G.
Uniform distribution of fractional parts. 143
Korovkin, P. P.
*Inequalities. 24
Kosambi, D. D.
Path geometry and continuous groups. 498
Koschmieder, L.
Some series from the theory of elliptic functions. 160
Koseki, K.
Ausnahmewerte der meromorphen Funktionen. 365
Begrenzung eines besonderen Gebietes. III. 572
Košlyakov, N. S.
Differential equations with doubly periodic coefficients. 754
Košlyakov, V. N.
Gyroscope in a resisting medium. 1025

Kosminskaya, I. P.
Interference of seismic waves. 1040
Kosmodem'yanskiĭ, A. A.
Mechanics of bodies of variable mass. I, II. 1025
Kosten, L.
Measurements of probabilities of delay. 188
Koster, G. F.
Localized functions in molecules and crystals. 748
Kostić, M. Brčić-. See Brčić-Kostić, M.
Kostin, V. I.
Metric duality of Riemannian geometry. 1123
Koszul, J.-L.
Algèbres de Lie résolubles. 943
Kotelyanskiĭ, D. M.
Matrices with positive elements. 1055
Kothari, L. S.
Riesz potential for the meson case. 607
Kothari, L. S., and Bhatnagar, P. L.
Riesz potential and Wentzel potential. 338
Köthe, G.
Randverteilungen analytischer Funktionen. 563
Kotik, J. See Birkhoff, G.
Kourganoff, V.
*Basic methods in transfer problems. 879
Kourganoff, V., et Pecker, C.
Résolution des équations intégro-différentielles. 94
Koutoumanos, A. See Coutoumanos, A.
Koutský, K.
Lattices topologiques. 1001
Kovalenko, A. D.
Rotating conical shell with varying wall thickness. 111
Kovalevskaya, S. V.
*Scientific works. 121
Kovan'ko, A. S.
Convergence of sequences of functions. 1081
Kovasznay, L. S. G. See Uberoi, M. S.
Kowalsky, H.-J.
Topologische Kennzeichnung von Körpern. 1058
Koyré, A.
Mécanique céleste de Borelli. 343
Kozlova, Z. I.
Theorems of multiple separability. 456
Kračkovskiĭ, S. N. (Cf. Gol'dman, M. A.)
Null elements of a linear operator. 1095
Kračkovskiĭ, S. N., and Vinogradov, A. A.
Uniform convexity of space of type B. 55
Krafft, M.
Vierscheitelsatz. 897
Kraitchik, M.
Factorization of $2^n \pm 1$. 121
*Introduction à la théorie des nombres. 535
*Mathematical recreations. 2d ed. 620
Králik, D.
Nicht-messbare Punktmengen. 735
Krames, J.
Einpassung von Luftaufnahmen. 675
Krasil'ščikova, E. A.
Supersonic flow about thin bodies. 815
Krasner, M.
Non-existence of certain extensions. 613
Krasner, M., et Kaloujnine, L.
Produit complet de groupes de permutations. I, II, III. 242
Krasnosel'skiĭ, M. A.
Critical points of functionals. 55
Root of a linear integral operator. 1092
Nonlinear integral equations. 1095
Completely continuous vector fields. 1109
Krasnosel'skiĭ, M. A., and Kreĭn, S. G.
Category of projective space. 72
Errors in solution of linear equations. 501
Iteration process with minimal residuals. 692
Krasnosel'skiĭ, M. A., and Rutickiĭ, Ya. B.
Linear integral operators in Orlicz spaces. 57
Krasnovidova, I. S., and Rogožin, V. S.
Inverse boundary problem. 740
Krasovskiĭ, N. N. (Cf. Barbašin, E. A.)
Stability of motion. I, II. 376, 752
Stability of solutions of a nonlinear system. 1087
Krassa, K. V. Solyanik-. See Solyanik-Krassa.
Krat, V. A.
*Figures of equilibrium of celestial bodies. 589
Kravtchenko, J.
Problème déterminé des sillages. 326
Krawitz, E.
*Punched card mathematical tables. 91
von Krbek, F.
*Eingefangenes Unendlich. Bekenntnis zur Geschichte der Mathematik. 341
Allgemeine Relativitätstheorie. 806
Prinzip von d'Alembert. 832
Grundzüge der speziellen Relativitätstheorie. 1023
Grundzüge der Mechanik. 1024
Anfangsgründe der Quantenmechanik. 1045
Kreĭn, M. G. (Cf. Gantmaher, F. R.)
Transformations of spaces with indefinite metric. 56
Hermitian operators. 56
Representations of Hermitian operators. 56
Algebraic proposition in theory of matrices of monodromy. 277
Hermitian positive kernels on homogeneous spaces. I. 480
Sturm-Liouville boundary problem in interval $(0, \infty)$. 558
Inverse problems for a nonhomogeneous cord. 649
Oscillations of Sturmian systems. 650
Investigations of Stieltjes. 868
Entire matrix functions of exponential type. 981
Kreĭn, S. G. (Cf. Berezanskiĭ, Yu, M., Krasnosel'skiĭ, M. A.)
Invariant points in conformal mapping. 742
Kreisel, G.
Interpretation of non-finitist proofs. I, II. 122, 440
Elementary inequalities. 458
Functional relationship. 737
Completeness and interpretation of formal systems. 937
Formal systems of number theory. 937
Krettner, J.
Elastostatische Grundformeln für krummlinige Koordinaten. 1035
Kreyszig, E.
Integralkosinus Ci (z, α). 871
Krickeberg, K.
Theorie des oberen und unteren Integrals. 735
Krieger, S. Woinowsky-. See Woinowsky-Krieger.
Krikunov, Yu. M.
Generalized Riemann boundary problem and singular integro-differential equation. 153
Krilov, A. N. See Krylov, A. N.
Krishna, Shri.
Congruences formed by the tangents to a surface. 204
Congruence of Ribaucour. 581
Krishna Iyer, P. V.
Probability distributions of points on a line. III. 297
Distributions arising in Markoff chains. 771
Krishnamoorthy, A. S.
Ratios in a divergent series. 158
Krishnan, V. S.
Algèbres partiellement ordonnées. II. 838
Kroll, W. D. See Levy, S.
Kronig, R., and Thellung, A.
Hydrodynamics of non-viscous fluids and helium II. 427
Kronrod, A. S. See Adel'son-Vel'skiĭ, G. M.
Krooth, R. S.
Sampling variances of some statistics. 775

Krotkov, R. V., and Scheidegger, A. E.
Thermodynamics of some special fields. 710
Krüger, M.
Kombination thermischer und elektromagnetischer Felder. 476
Krull, W.
Halbgeordnete Gruppen. 19
Arithmetik der endlichen diskreten Hauptordnungen. 23
Geschlossene Bewertungssysteme. 131
Theorie des Hilbertschen Raumes. 183
*Elementare und klassische Algebra vom modernen Standpunkt. 442
Erweiterungen bewerteter Körper. 840
Kruppa, E.
Duale Gegenstücke zum Meusnierschen und Eulerschen Satz. 901
Dualitätsprinzip in der Differentialgeometrie. 1013
Affinnormalebenen der durch eine Kurve gelegten Zylinderflächen. 1119
Kruskal, J. B., Jr.
Monotonic subsequences. 744
Kruskal, W. H.
Nonparametric test for several sample problem. 391
Line of organic correlation. 890
Kryloff, N. M.
Généralisations des fonctions d'une variable complexe. 633
Krylov, A. N.
*On some differential equations of technical physics. 559
v. Krzywoblocki, M. Z. E.
*Turbulence in compressible fluids. I, II, III, IV. 106, 596, 919
Bergman's operator method in compressible flow. 510
Turbulence in magneto-hydrodynamics. I, II, III. 596, 813
Krzyżański, M.
Solution élémentaire de l'équation de la chaleur. 651
Ku, C. H., Yüh, M. I., and Chen, K. K.
Abscissa of uniform convergence of Laplace integral. 43
Kubilyus, I. P.
Geometry of prime numbers. 847
Kubo, R.
Expansion theorem of the density matrix. 438
Statistical theory of polymers. I, II, III, IV, V. 711
Kubo, T.
Conformal mapping of multiply-connected domains. 36
Bounded analytic functions. 460
Potential defined in a domain. 749
Kubota, T.
Ungleichheiten für Eilinien und Eiflächen. 678
Kucera, J.
Analyse tensorielle des machines électriques. 227
Kucharski, W.
Hamels Bedeutung für die Mechanik. 343
Kudō, H.
Infinite product measures. 256
Classical problems of statistics. 996
Efficient estimation. 996
Kudo, T.
Homological structure of fibre bundles. 1111
Kudryavcev, L. D., and Kaščenko, Yu. D.
Change of variable in an integral. 30
Reduction of multiple Lebesgue integral. 457
Kudryavcev, N. V.
Bending of a circular plate. 516
Kuessner, H. G.
*Unsteady lifting surface theory. 1138
Kufarev, P. P.
Free-streamline flow. 695
Kufarev, P. P., and Fales, A. E.
Extremal problem for complementary regions. 262
Kuhn, H. W.
Groups presented by generators. 241
*Extensive games and problem of information. 999
Kuhn, T. S.
Confluent hypergeometric equation. 45
Kuiper, N. H. (Cf. Chern, Shiing-shen.)
Holonomic groups of the vector displacement in Riemannian spaces. 89
Analysis of variance. 998
Kuipers, L.
Properties of elementary functions. 360
Kuipers, L., and Meulenbeld, B.
Properties of continued fractions. 23
Real functions of n variables. 736
Kula, M.
Notion d'enveloppe en géométrie réglée. 792
Kulikov, L. Ya.
Generalized primary groups. I. 132
Kulikov, N. K.
Limit of solution of nonlinear differential equation. 472
Oscillations of a nonlinear system. 693
van der Kulk, W. (Cf. Schouten, J. A.)
Polynomial rings in two variables. 941
Kullback, S.
Information theory. 568
Kumar, Ram.
Functions which are Hankel transforms of each other. 870
Kumar, S., and Joga Rao, C. V.
Stresses around a hole in rotating disks. 1037
Kümmel, H.
Freie Elektronen in Quantenelektrodynamik. 829
Kundert, E. G.
Simple meromorphic differential form and Chern's characteristic classes of an algebraic variety. 682
Kunin, I. A.
Region for which motions remain asymptotically stable. 376
Kunisawa, K.
Mathematical foundation of Shannon's information source. 772
Kunisawa, K., and Maruyama, G.
Infinitely divisible laws. 294
Kuo, Hsiao-Lan.
Disturbances in a zonal current. 220
Kuo-Liang Yang. See Yang.
Kuo-Tsai Chen. See Chen.
Kupperman, M.
Grouping corrections to moments and cumulants. 389
Kupradze, V. D.
Vibrations of an elastic medium. 336
Mathematical theory of diffraction. 877
Spatial dynamical problem of elasticity. I, II. 1039
Kuramochi, Z.
Potential theory. II. 272
Bounded analytic function. 742
Kuratowski, C. (Cf. Grzegorczyk, A.)
Caractérisation des alephs. 26
Prolongement des fonctions continues. 70
Polish State Mathematical Institute. 121
*Topologie. Vol. II. 2ème éd. 892
*Topologie. Vol. I. 3ème ed. 1000
Kuratowski, C., et Mostowski, A.
Problème de la théorie des groupes et son rapport à la topologie. 131
*Theory of sets. 960
Kuratowski, C., et Zarankiewicz, C.
Coupures des régions par des continus. 1109
Kurdgelaidze, D. See Ivanenko, D.
Kurepa, Đ.
Definition and notation of matrices. 146
Produit de deux nombres complexes. 237
Continu linéaire et problème de Suslin. 255
Characteristic property of finite sets. 255
Rational numbers as ordered triplets. 612
Principle of total induction. 938
Measure and partially ordered sets. 960

Kurita, M.
Riemann space with homogeneous holonomy group. 88
Kuročkin, V. M.
Decomposition of algebras. 129
Kuroda, T.
Open Riemann surface. II. 470
Uniform meromorphic functions. 740
Kuroš, A. G.
Locally simple and locally central algebras. 943
Kuroš, A. G., and Černikov, S. N.
Solvable and nilpotent groups. 618
Kurovskiĭ, F. M.
Motion schedule of mechanism member. 807
Kurşunoğlu, B. (Cf. Rickayzen, G.)
Gravitation and electrodynamics. 805
Kurzweil, J.
Metric theory of diophantine approximations. 454
Kušević, R.
Résolution des équations d'élasticité. 924
Solution of equations of elasticity. 924
Kushwaha, R. S.
Model of the variable star. 416
Kushwaha, R. S., and Bhatnagar, P. L.
Stability of stars under variable Γ. 96
Kustaanheimo, P. (Cf. Järnefelt, G.)
Fundamental prime of a finite world. 949
Kustaanheimo, P., and Qvist, B.
Differentiation in Galois fields. 944
Sendai Astronomiaj Raportoj nro 23. 1133
Kusukawa, K.
Shock wave in elastic medium. 1147
Kusunoki, Y.
Streckenkomplex und Ordnung gebrochener Funktionen. 156
Nullberandete Riemannsche Fläche. 550
Kuvšinskiĭ, E. V.
Incompressible elastic-viscous medium. 113
Kuwagaki, A.
Quelques équations fonctionnelles. I, II. 53, 286
Equation fonctionnelle rationnelle. 760
Fonctions satisfaisant une formule d'addition. 760
Kuzmak, G. E.
Integro-differential equation of a wing. 696
Kuz'mina, A. L.
Quasi-analytic functions of several variables. 38
Kuznecov, M. D.
Hydrodynamics of ring-shaped cross-section. 424
Kveselava, D. A.
Boundary problems of theory of functions. 152
Kwal, B.
Théorie du méson et des forces nucléaires. 437
Ky Fan. See Fan.
Kyhl, H.
Remarks on prime numbers. 847
Kynch, G. J.
Scattering amplitudes. 710

Laadi, H., and Boivie, O.
*Lagged product sums of H. Wold's normal deviates. 389
Laasonen, P.
*Wärmeleitungsproblem einer linearen Mannigfaltigkeit. 877
Labrador, J. F.
J. G. Darboux. 1050
Lacey, L. J.
Earth-raturn circuits. 703
la Cinta Badillo, M.ª de. See Cinta Badillo.
Lacombe, D.
Mathématiques au III^e siècle avant J. C. 1049
Lacombe, H.
*Diffraction of a swell. 1138
Ladegast, K.
Endliche unstetige Verteilungen. 770
Ladopoulos, P. D.
Métrique des courbes algébriques. 310
Ladyženskaya, O. A.
Closure of the elliptic operator. 280
Fourier's method for hyperbolic equations. 280
Solution of mixed problem by finite differences. 281
Integrals of hyperbolic equations. 380
Mixed problem for hyperbolic equations. I, II. 381, 474
Method of finite differences for hyperbolic systems. 1130
la Garrigue, V. Rouquet. See Rouquet la Garrigue, V.
la Garza, A. de. See Garza.
Lagrange, R.
Produits d'inversions. I, II, III. 195, 896
Équivalence anallagmatique. 196
Courbes dans l'espace anallagmatique. 204
Métrique anallagmatique. 399
Laguardia, R.
*Iteration of Laplace transform. 555
Lah, I.
Interpolationsformeln des Zinsfussproblemes. 411
Generalisierte Poukkasche Funktion. 910
Laitone, E. V.
Theodorsen's circulation function. 103
Lakshmana Rao, S. K., and Ramakrishna, B. S.
Trigonometric series used in physical problems. 637
Lal, D. N.
Independent frequency distributions. 298
Lalaguë, P.
Fonctions indéfiniment dérivables. I, II. 158, 868
Lalan, V.
Transformations de Lorentz. 807
Laman, G.
Distance geometry and Boolean algebras. 576
la Marre, P. Huard de. See Huard de la Marre, P.
Lambe, C. G.
Lamé-Wangerin functions. 271
Lambourne, N. C.
Oscillating aerofoil. 812
Lampariello, G.
*Elettrodinamica relativistica. 1134
Lamprecht, E.
Gaussssche Summen in endlichen kommutativen Ringen. 942
Lamson, K. W.
Einstein's generalized theory of gravitation. 1133
Lancaster, H. O.
Complex contingency tables. 486
Lanczos, C. (Cf. Rosser, J. B.)
Linear equations by minimized-iterations. 501
Landahl, H. D.
Approximate solution of diffusion problems. 781
Landau, H. G.
Dominance relations and animal societies. II, III. 1000
Landau, H. G., and Rapoport, A.
Contagion and spread of information. I. 1000
Landauer, R.
Associated Legendre polynomial approximations. 44
Landis, E. M.
Cauchy's problem for a parabolic equation. 283
Lane, N. D. See Beatty, S.
Lane, R. E.
Convergence of continued fractions. I, II. 1079, 1080
Lang, S.
Theory of real places. 841
Lang, S., and Tate, J.
Chevalley's proof of Lüroth's theorem. 252
Langebartel, R. G.
Convolutions of $x^{\lambda}-$. 869
van Langendonck, T.
*Orthogonal functions in the solution of problems of the theory of elasticity. Vol. I. 221

Langer, S. K.
*An introduction to symbolic logic. 2d ed. 1051
Langhaar, H. L.
Membrane stress function for shells. 1143
Langton, N. H. See Davy, N.
Lansraux, G.
Diffraction instrumentale. 1042
Lapin, E., Crookshanks, R., and Hunter, H. F.
Two-dimensional oscillating wing. 103
Laporte, O. See Bartels, R. C. F.
Lappo-Danilevsky, J. A.
*Mémoires sur la théorie des systèmes des équations différentielles linéaires. 873
Laptev, B. L.
Theory of parallel lines in early works of Lobačevskiĭ. I, II. 524, 833
*Life and activity of Lobačevskiĭ. 832
*New method of differential geometric investigations. 1016
Larguier, E.
Homology bases. 73
Larin, S. See Ivanenko, D.
la Ripelle, M. Fabre de. See Fabre de la Ripelle.
Larsen, L. M.
History of computing in Denmark. 831
Larsen, O.
Supposition de P. Turán. 847
Lasley, J. W., Jr.
Projective-metric definition of distance. 494
Lassen, R. H. See Brower, W. B.
Latscha, R.
Tests of significance in contingency table. 1104
Latter, R. See Bellman, R.
Laudet, M.
Calcul numérique du potentiel. 414
Lentille électrostatique cylindrique. 824
v. Laue, M.
*Die Relativitätstheorie. I. 98
Lauffer, R.
Konfiguration von Desargues. I. 1008
Wege in Minimalebenen. 1014
Laurenti, F.
Alcune questioni di minimo. 731
Equations trigonométriques. 785
Laurikainen, K. V.
Asymptotic eigensolutions of deuteron equation. 875
Laurmann, J. A.
Stability of the compressible laminar boundary layer. 697
Lavender, R. E.
Second-order supersonic flow theory. 1034
Lavrent'ev, M. A.
Ondes longues. 102
*Dirichlet problem for a narrow stratum. 272
Lavrent'ev, M. A., and Šabat, B. V.
*Methods of the theory of functions of a complex variable. 457
Lavut, A. P.
Seidel's transformations for systems of normal equations. 1128
Lawden, D. F.
Linear difference equations. 285
Lax, M.
Dipoles on a lattice. 712
Lax, P. D. (Cf. Berg, P. W.)
Existence of Green's function. 470
Lazard, M.
Groupes analytiques dans les modules filtrés. 534
Suites d'éléments dans les groupes libres. 617
Groupes de dimension des groupes libres. 724
Leavitt, W. G.
Mappings of vector spaces. 528
LeCam, L.
Asymptotic properties of maximum likelihood estimates. 998
Le Corbeiller, P., and Yeung, Ying-Wa.
Duality in mechanics. 421
Ledermann, W. (Cf. Reuter, G. E. H.)
*Theory of finite groups. 2d ed. 945
Ledinegg, E., und Urban, P.
Hohlrohrwellen. I, II. 226
Schwingungen elektrodynamischer Systeme. 226
Randwertproblem der Maxwellschen Gleichungen. 604
Lee, E. H. (Cf. Drucker, D. C.)
Plastic wave propagation. 602
Lee, T. D. (Cf. Yang, C. N.)
Statistical properties of hydrodynamical and magneto-hydrodynamical fields. 425
Lee, T. D., and Yang, C. N.
Equations of state and phase transitions. II. 711
Lee Wu, M. H. See Wu.
Leemans, J.
Développement par une série de polynomes. 641
Lees, L.
Boundary-layer equations in hypersonic flow. 600
Lefèvre, J.
Réassurance "Excess-Loss." 774
Lefschetz, S.
Notes on differential equations. 557
Legendre, R.
*Fonctions biharmoniques doublement complexes. 333
Elastostatique plane. 428
Legrain-Pissard, N.
Suite de Laplace. 1120
Legras, J.
Ondes de choc en écoulement plan. 218
Lehan, F. W.
Expected number of crossings of axis. 995
Lehmann, E. L. (Cf. Hodges, J. L., Jr.)
Least favorable distributions. 298
Testing multiparameter hypotheses. 666
Power of rank tests. 888
Lehmann, N. J.
Polare Integrodifferentialgleichungen. 765
Lehmer, D. H.
Sieve problem for computers. 691
Lehner, J.
Diophantine property of Fuchsian groups. 359
Lehnert, B.
Electrically conductive liquid in magnetic field. 813
Lehto, O.
Kernel function in Hilbert function space. 185
Distortion of conformal mappings. 743
Fonctions méromorphes à caractéristique bornée. 858
Leĭbenzon, L. S.
*Collected works. Vol. I. 609
Leĭbenzon, Z. L.
Ring of continuous functions. 386
Continuous point transformation of an interval onto itself. 1072
Leĭbin, A. S.
Spherical mapping of Boy's surface. 581
Leichtweiss, K.
Natürliche Gleichungen einer Fläche. 794
Leimanis, E.
Bewegung eines Massenpunktes in einem Mittel veränderlicher Dichte. 695
Leisenring, K.
Map of hyperbolic plane into Euclidean circle. 399
Leja, F.
Séries entières doubles. 40
*Analytic and harmonic functions. Vol. I. 1073
Fonctions analytiques extrémales. 1075
Lekkerkerker, C. G. (Cf. Duparc, H. J. A.; Peremans, W.)
Prime factors of elements of sequences of integers. I, II. 1064

Le Lionnais, F.
Descartes et Einstein. 343
Lelong, P.
Propriétés de pseudo-convexité. 463
Convexité et fonctions analytiques de plusieurs variables. 463
Domaines convexes par rapport aux fonctions plurisous-harmoniques. 971
Lelong-Ferrand, J.
Représentations d'un domaine plan variable. 36
Représentation conforme des bandes. 742
Lemaigre, B. See Timman, R.
Lemaitre, G.
Problème des trois corps. I, II. 910
Leman, A.
*Vom periodischen Dezimalbruch zur Zahlentheorie. 360
Lembcke, H.-R.
Biege- und Torsionsschwingungen von Stäben. 112
Leng, Sen-ming.
Characteristic roots of a matrix. 7
Lense, J.
Geometrischer Satz der Kristalloptik. 603
*Reihenentwicklungen in der mathematischen Physik. 3te Aufl. 979
Lenz, H.
Zurückführung einiger Integrale. 361
Orthogonaltrajektorien. 582
Asymptotische Entwicklungen der Wahrscheinlichkeitsrechung. 771
Kreistreue konforme Abbildungen zyklischer Flächen. 901
Automorphismengruppen unendlicher Körpererweiterungen. 1058
Verallgemeinerungen der Schwarzschen Polygonabbildung. 1076
Leonardi, R.
Sistemi di numeri equitotali. 450
Leonov, M. Ya.
Circular die on elastic half-space. 1146
Leont'ev, A. F.
Generalization of Liouville's theorem. 154
Differential-difference equations. 478
Completeness of a system of analytic functions. 548
*Series of Dirichlet polynomials and their generalizations. 1074
Lepage, T.
Polynomes irréductibles. 126
Leray, J.
Errata. 398
Equation aux dérivées partielles, à coefficients constants. 477
Lesky, P.
Calcolo numerico: funzione armonica soggetta a condizioni al contorno non lineari. 908
Stati di tensione piana in un cilindro elastico. 1145
Leslie, D. C. M.
Supersonic theory of downwash fields. 426
Lesovoĭ, B. V.
Measure of area in family of curves. 856
Lessen, M.
Stability of laminar flows. 697
Stability of boundary layer. 1031
Letov, A. M.
Theory of gyrosemicompasses. 808
Leum, M., and Smiley, M. F.
Fundamental theorem of algebra for real quaternions. 528
Levee, R. D.
Gravitationally contracting stellar model. 912
LeVeque, W. J.
Continued fractions and approximations in $k(i)$. I, II. 850
Farey sections in $k(i)$. 850
Note on S-numbers. 956
Mahler's U-numbers. 956
On n-dimensional uniform distribution modulo 1. 1067
Levi, B. (Cf. Petracca, A.)
Composite frequency curves. 485
Nonhomogeneous linear differential equations. 755
Levi, F. W.
Zwei Sätze von Besicovitch. 309
Levi-Cività, T., e Amaldi, U.
*Lezioni di meccanica razionale. Vols. 1, 2. 419
Levin, B. Ya.
Almost periodic functions of Levitan. 370
Fourier-Plancherel transform. 371
Levin, J. H.
*Subroutines for the SEAC. 1021
Levin, V. I. See Fuks, B. A.
Levine, D. A. See Tetervin, N.
Levine, N. See Helsel, R. G.
Levinson, N. (Cf. Coddington, E. A.)
Phase shift and scattering potential. 755
Levitan, B. M. (Cf. Barenblatt, G. I.)
Expansion in Fourier series and integrals with Bessel functions. 163
Squares of characteristic functions. 171
Levitzki, J.
Structure of algebraic algebras. 720
Rank of commutativity. 840
Lévy, M. M.
Relativistic two-body problem. 706
Lévy, P.
Séries aléatoires et loi normale. 61
Lois de probabilité indécomposables. 186
Loi faible et loi forte des grands nombres. I, II. 485, 994
Processus de Markoff. 663
Intégrales de Stieltjes généralisées. 1071
Random functions. 1099
Levy, S.
Influence coefficients of tapered beams. 701
Levy, S., and Kroll, W. D.
*Errors in dynamic response computation. 1130
Lewin, L.
Wave-guide-fed slots. 643
Rectangular waveguides. 704
Lewis, D. J.
Cubic homogeneous polynomials over p-adic number fields. 251
Lewis, E. A., and Casey, J. P., Jr.
Electromagnetic reflection and transmission. 338
Lewis, F. A.
Linear congruence group. 241
Lewy, H. (Cf. Garabedian, P. R.)
Boundary behavior of minimal surfaces. 168
Harmonic functions and hydrodynamical application. 168
Free surface flow in gravity field. 594
Minimal surfaces with partially free boundary. 662
Li, Ching Chun.
*Introduction to population genetics. 780
Liao, S. D.
Periodic transformations of homology spheres. 73
Liber, A. E.
Surfaces in a centro-affine space. 319
Two-dimensional spaces with algebraic metric. 688
Libermann, P.
Structures presque paracomplexes. 88
Formes différentielles extérieures sur une variété V_{2n}. 585
Libois, P.
*Les espaces. 75
Lichnerowicz, A.
Variétés pseudokählériennes. 89
Equations relativistes de la gravitation. 1133
Lichnerowicz, A., and Aufenkamp, D.
Transformation of equations of dynamics. 421
Lidskiĭ, V. B.
Proper values of sum and product of symmetric matrices. 528

Lieblein, J.
Variances and covariances of order statistics. 995
Liebmann, G.
Waveguide and cavity-resonator problems. 704
Liénard, P. See Eckart, G.
Liepmann, H. W.
Aspects of turbulence problem. 597
Liesse, C.
Théorie des couches nucléaires. 227
Lietzmann, W.
*Anschauliche Einführung in die mehrdimensionale Geometrie. 575
Lifšic, I. M.
Perturbations connected with quantum statistics. 185
Perturbations of an operator with quasi-continuous spectrum. 565
Liger, M. See Germain, P.
Lighthill, M. J.
Squirming motion at small Reynolds numbers. 424
Limber, D. N.
Fluctuations in the Milky Way. 803
Extragalactic nebulae. 803
Lin, Chia-Chiao. (Cf. Dunn, D. W.; Tetervin, N.)
Acceleration terms in Navier-Stokes equations. 509
Similarity concepts in isotropic turbulence. 813
Stability of the laminar mixing region. 813
Lindberger, N. A.
*Differential equations on Type 602 Calculating Punch. 93
Lindley, D. V.
Estimation of functional relationship. 1104
Linés Escardó, E., and Mallol Balmaña, R.
On l-groups. 616
Ling, Chih-Bing, and Yang, Kuo-Liang.
Symmetrical strain in solids of revolution. 428
Linnik, Yu. V.
Linear statistics and normal distribution law. 60
*Prime numbers and powers of two. 355
Classical derivation of Maxwell's law. 388
Binary Goldbach problem. 847
Lionnais, F. Le. See Le Lionnais, F.
Lipschutz, M.
Theorem of Chung and Feller. 662
Lipson, H. See Beevers, C. A.
Littlewood, D. E.
Modular representations of symmetric groups. 243
Conformal transformations and kinematical relativity. 592
Unitary equivalence. 939
Littlewood, J. E.
Some inequalities with application to integral functions. 154
Problem of n bodies. 910
Litvin, F. L.
Tooth thickness of worms and helical gears. 694
Litwiniszyn, J.
Equations of hydrodynamics. 1029
Liu, Hsien Chih.
Ringwellen an einer Flüssigkeitsoberfläche. 216
Schwingungen idealer Flüssigkeiten. I, II. 696
Liu, Nanming.
*Computing the mean difference. 888
Livesley, R. K.
Elastic plate resting on elastic foundation. 819
Livingston, A. E.
Hausdorff means exhibiting Gibbs' phenomenon. 1078
Livšic, M. S.
Linear non-Hermitian operator. 184
Resolvent of a nonsymmetric operator. 185
Ljunggren, W. (Cf. Brun, V.)
Diophantine equation $x^2+4=Ay^4$. 136
Problem proposed by Lucas. 353
Diophantische Gleichung $x^3+1=2y^2$. 450
Lloyd, E. H. (Cf. Anis, A. A.)
Estimation of variance and covariance. 64
Estimation of location and scale parameters. 65
Direct product of matrices. 610
Löb, M. H.
Complete system of arithmetic. 938
Löbell, F.
Natürliche Geometrie der Kurvenkongruenzen. 315
Integrabilitätsbedingungen für Flächenabbildungen. 497
Variation von Kurvenintegralen. 497
Kurvenkongruenzen und Flächenabbildungen. 793
Flächen mit vorgegebener vektorieller Differentialinvariante. 793
Locher-Ernst, L.
Wie viele regelmässige Polyeder? 493
Lochs, G.
Anzahl der Gitterpunkte in einem Tetraeder. 730
Lode, T.
Universal decision element. 504
Loewner, C.
Solutions of the biharmonic equation. 1085
Lohr, E.
*Mechanik der Festkörper. 220
Lohwater, A. J.
Boundary values of meromorphic functions. 34
Lohwater, A. J., and Piranian, G.
Conformal mapping of a Jordan region. 262
Loinger, A.
Modello di due campi interagenti. 608
Teorema di ortogonalità alla Van Hove. 1046
Loiseau, J.
*Mécanique rationnelle dans un espace à quatre dimensions. 916
Łojasiewicz, S.
Spirale logarithmique. 195
Equation fonctionelle $f(f(\cdots f(x)\cdots))=g(x)$. 285
Lokki, O.
*Harmonische Funktionen mit endlichem Dirichletintegral. 644
Randwertproblem der analytischen Funktionen. 742
Lomadze, G. A.
Representation of two whole numbers. 622
Lomax, H., Heaslet, M. A., and Fuller, F. B.
Integrals and integral equations in wing theory. 383
Lombardo-Radice, L.
Ordinali transfiniti e principio del terzo escluso. 124
Lomnicki, Z. A.
Standard error of Gini's mean difference. 389
Longo, C.
Trasformazioni puntuali fra due S_1. 402
Loo-Keng Hua. See Hua.
Loomis, L. H.
Theorem of Mackey. 352
*An introduction to abstract harmonic analysis. 883
Loos, H. G.
Tunnelwall interference. 422
Lopatinskiĭ, Y. B.
Differential equations of elliptic type. 652
Lopšic, A. M.
Numerical method for characteristic values and planes. 412
Riemannian spaces of first class. 794
Extremal theorem for hyperellipsoid and system of linear algebraic equations. 1127
Łopuszański, J.
Solution of Thomas-Fermi equation. 209
Lorch, E. R.
Convexity and normed spaces. 288
Convex bodies in Banach spaces. 657
Differentiable inequalities and convex bodies. 678
Lorch, L.
Asymptotic expressions for some integrals. 635

Lorent, H.
Courbes construites à partir de deux coniques. 399
Réalités et symbolismes en mathématiques. 835
Courbes construites à partir de deux lignes. 895
Lorentz, G. G.
Riesz methods of summation. 160
Multiply subadditive functions. 564
Inequality for rearrangements. 626
Lorentz, G. G., and Macphail, M. S.
Unbounded operators and theorem of A. Robinson. 634
Lorenzen, P.
Teilbarkeitstheorie in Bereichen. 127
Mengenbegriff in der Topologie. 714
Abzählbarkeitsvoraussetzung in der Algebra. 835
Lorenzo, G. De. See De Lorenzo, G.
Los', F. S.
Averaging for differential equations in Hilbert space. 47
Łoś, J.
Prolongement des fonctions aux σ-mesures. 27
Completeness for two-valued propositional calculus. 345
Łoś, J., and Ryll-Nardzewski, C.
Tychonoff's theorem in mathematical proofs. 70
Lošakov, L. N.
Waves in an electron beam. 226
Lotkin, M.
*Ballistic functions and Newtonian law of resistance. 1026
Lotze, A.
*Vektor- und Affinor-Analysis. 145
Vektorielle Deutung Pfaff'scher Formen in der Differentialgeometrie. 583
Love, E. R.
Mercer's summability theorem. 159
Löwdin, P. O.
Numerical integration of ordinary differential equations. 413
Many-center integrals. 693
Löwig, H. F. J.
Transitive Boolean relations. 238
Freely generated algebras. 443
Lowry, H. V.
Polygons inscribed in polygons. 493
Lubkin, S.
Summing infinite series. 500
Luce, R. D.
Boolean matrix theory. 347
Ludeke, C. A., and Morrison, C. L.
Analog computers for differential equations. 801
Lüders, G.
Bewegungsumkehr in quantisierten Feldtheorien. 709
Ludford, G. S. S.
D'Alembert's paradox in subsonic flow. 920
*Extension to subsonic flow of the Joukowski force. 1140
Ludford, G., Polachek, H., and Seeger, R. J.
Compressible viscous fluids. 1032
Ludloff, H. F. See Ting, L.
Ludloff, H. F., and Friedman, M. B.
Diffraction of blasts. 1141
Ludwig, G.
*Fortschritte der projektiven Relativitätstheorie. 213
Unitäre Feldtheorie, Strahlungsemission, Selbstenergie und Lambshift. 608
Lukacs, E.
Independence of linear and quadratic statistics. 297
Lukacs, E., and Szász, O.
Nonnegative trigonometric polynomials in probability. 161
Analytic characteristic functions. 485
Łukasiewicz, J.
Intuitionistic theory of deduction. 4
*Aristotle's syllogistic from the standpoint of modern formal logic. 713
Comment on K. J. Cohen's remark. 1053
Łukaszewicz, J., rédacteur.
Liaison et division des points d'un ensemble fini. 76
Luke, Y. L.
Mechanical quadrature near a singularity. 413
Luke, Y. L., and Ufford, D.
Table of complete Cicala function. 1018
Lukomskaya, M. A.
Linear homogeneous differential equations. 650
Lumer, G. See Halmos, P. R.
Lunc, A. G.
Analysis and synthesis of relay contact networks. 606
Lundquist, S.
Magneto-hydrodynamics. 814
Lur'e, A. I.
Stressed state about an ellipsoidal cavity. 1145
Lur'e, A. L.
Inverse Bernoulli theorem. 567
Lüst, R.
Um einen Zentralkörper rotierende Gasmasse. I. 95
Lüst, R., Schlüter, A., und Trefftz, E.
Verallgemeinerte Multipolfelder. 1085
Lu Ting. See Ting.
Luzin, N. N.
*Integral and trigonometric series. 2
Method of approximate integration of Čaplygin. 323
Lyance, V. È.
Cauchy's problem in a domain of functions of real variables. 285
Lyapin, E.
Systems with an infinite operation. 940
Lyapunov, A. A.
Separability and nonseparability of R-sets. 1069
Lyche, R. Tambs. See Tambs Lyche.
Lyerly, S. B.
Spearman rank correlation coefficient. 665
Lyndon, R. C.
Nilpotent groups. 242
Lyra, G.
Differentialgleichungen in der Umgebung einer Stelle der Bestimmtheit. 170
Lysanov, Yu. P.
Scattering of electromagnetic waves. 933
Lyttleton, R. A. See Bondi, H.
Lyusternik, L. A. (Cf. Bari, N. K.)
Approximation of functions in the plane. 747
Lyusternik, L. A., and Sobolev, V. I.
*The elements of functional analysis. 54

McArthur, C. W. See Gordon, W. L.
McCall, F. See Mitchell, A. R.
McCandless, B. H.
Dimension and disconnection. 396
McCarthy, J.
Calculation of limit cycles. 557
McCoy, N. H.
Polynomials over a commutative ring. 613
McCrea, W. H. (Cf. Hogarth, J. E.)
*Analytical geometry of three dimensions. 1114
Fitzgerald-Lorentz contraction. 1134
McDonal, F. J.
Fourier analyzer. 801
MacDonald, A. D. See Guptill, E. W.
McDonald, J.
Davis's canonical pencils of lines. 204
MacDonald, W. M., III, Richardson, J. M., and Rosenberry, L. P.
Representation of nonlinear field functions by Thiele semi-invariants. 373
McEwen, W. H.
Spectral theory and differential eigenvalue problems. 983

McFadden, J. A.
Initial behavior of spherical blast. 511
Summation of Fourier series. 801
McKay, C. D. See Scheidegger, A. E.
McKean, H. P., Jr.
Completeness of Hermite functions. 268
MacKenzie, R. E.
Class group relations in cyclotomic fields. 537
McKinsey, J. C. C.
*Introduction to the theory of games. 300
Notions and problems of game theory. 667
McKinsey, J. C. C., and Suppes, P.
Transformations of classical mechanics. 1023
McKinsey, J. C. C., Sugar, A. C., and Suppes, P.
Axiomatic foundations of classical mechanics. 1023
MacLane, G. R.
*Riemann surfaces and asymptotic values. 739
Sequences of derivatives and normal families. 741
MacLane, S. (Cf. Birkhoff, G.; Eilenberg, S.)
Duality for groups. 133
McLaughlin, J. E. See Dilworth, R. P.
McLaughlin, J. E., and Rosenberg, A.
Zero divisors and commutativity of rings. 718
McLean, D.
Cubic equations in groups. 351
McLellan, A. G.
Stress tensor, surface tension and viscosity. 829
McMillan, B.
Formal realizability theory. I, II. 116
The basic theorems of information theory. 1101
McNaughton, R.
Formal relative consistency proofs. 1052
MacNeal, R. H. See Benscoter, S. U.
MacNerney, J. S.
Half-bounded matrices. 626
MacRobert, T. M.
Expansion in associated Legendre functions. 466
Neumann's formula for Legendre functions. 468
Hypergeometric function transformations. 469
Terminating generalised hypergeometric functions. 469
McShane, E. J.
Spectrum of the harmonic oscillator. 1045
McVittie, G. C.
Development and thickness patterns. 220

Maak, W.
Problem der Kombinatorik. 345
Macbeath, A. M.
Non-homogeneous lattices. I, II. 624
Macintyre, A. J.
Asymptotic paths of integral functions. 259
Macintyre, S. S.
Generalizations of two-point expansions. 259
Macke, W.
Begründung der Speziellen Relativitätstheorie. 98
Mackey, G. W. (Cf. Kaplansky, I.)
Induced representations of finite groups. 947
Macon, N.
Approximation of irrational numbers 454
Macphail, M. S. (Cf. Lorentz, G. G.)
Extended Euler-Knopp transformation. 634
Madejski, J.
Laplace's equation and heat conduction. 651
Madhava Rao, B. S.
Characterisation of dynamical systems. 101
Madow, W. G.
Theory of systematic sampling. III. 996
Maecker, H.
Grenze der Totalreflexion. I, II. 114
Maeder, D.
Cartesische Linsen-Systeme. 337

Magenes, E.
Equazione del calore. I, II. 282
Minimo relativo nei problemi di calcolo delle variazioni. 292
Mager, A.
Boundary-layer momentum-integral equations. 509
Magnaradze, L.
Theorem of Plemelj-Privalov. 152
Linear boundary problem of Riemann-Hilbert. 152
Logarithmic potential. 152
Double integral transformations. 159
Magnaradze, N. G.
Expansions of Newtonion potential of an elliptic orbit. I, II. 211
Magnus, W.
Errata: Baker-Hausdorff formula and problem of Burnside. 723
Infinite matrices associated with diffraction. 816
Scattering effect of rough surface. 933
Mathieu's and Hill's equations. 1087
Mahajani, G. S., Thiruvenkatachar, V. R., and Thawani, V. D.
Tschebyscheff polynomials and symmetric functions. 8
Mahalanobis, P. C.
Design of sample surveys. 888
Maharam, D.
Representation of abstract integrals. 1071
Mahler, K.
Approximation of logarithms of algebraic numbers. 624
Lattice determinants of two point sets. 850
Approximation of π. 957
Mahler, K., and Popken, J.
Maximum problem in arithmetic. 852
Mähly, H. J.
*Genäherte Berechnung von Eigenwerten elastischer Schwingungen anisotroper Körper. 323
Maignan, P., Blanc, D., et Detoeuf, J.-F.
Théorie des fonctions génératrices. 568
Mainland, D., and Murray, I. M.
Tables for fourfold contingency tests. 389
Majorana, Q.
Spazio e tempo. 214
Majumdar, Nandagopal.
Radiation in expanding universe. 806
Majumdar, R. C., Apte, A. S., and Sundaresan, M. K.
Scattering of mesons. 119
Majumdar, S. Datta. See Datta Majumdar, S.
Makai, E.
Polynomials orthogonal in two intervals. 871
Sturm-Liouville functions. 872
Makar, Bushra H. See Makar, Ragy H.
Makar, Ragy H.
Puissances fractionnaires de bases de polynomes. 547
Monic sets of polynomials. 1083
Makar, Ragy H., and Makar, Bushra H.
Basic sets of polynomials. 641
Makover, S. G. See Samoĭlova-Yahontova, N. S.
Maksimov, I. M.
Sum equations. 878
Malatesta, S.
Studio statistico delle comunicazioni. 489
Malavard, L., et Boscher, J.
Modèle analogique pour flexion des poutres. 801
Mal'cev, A. I.
*Completion of group order. 13
Symmetric groupoids. 349
Class of algebraic systems. 839
Multiplicative congruences of matrices. 1057
Malécot, G.
Génétique de population. 394
M.-Alfred, F. See Alfred.

Malinvaud, E.
von Neumann-Morgenstern's strong independence axiom. 393
Malkin, I. G.
Stability of automatic regulation. I, II. 48, 170
Stability of motion. 275
Mallol Balmaña, R. (Cf. Linés Escardó, E.)
Note. 616
Malmheden, H.
Cauchy's problem for Maxwell's equations. 653
Malvaux, P.
Loi intrinsèque de composition des vitesses. 504
Malyšev, A. V.
Minkowski-Hlawka theorem. 143
Mambriani, A.
*Derivazione d'ordine qualsiasi. 1071
Mamuzić, Z.
Sets closed or open relative to set in Hausdorff space. 303
Manacorda, T.
Equazioni differenziali non lineari. I, II. 275, 472
Manara, C. F.
Ipersuperficie di diramazione. 76
Curve di diramazione dei piani multipli. 199
Identità birazionale dei piani tripli. 680
Trasformazioni puntuali di un piano in un altro. 789
Manaresi, G.
Equazione di Liénard generalizzata. 874
Mañas Díaz, J.
Laplace transform. I, II. 1082
Mancill, J. D.
Maxima of functions of two or more variables. 661
Mandel, J.
Réactivité des solides. 224
Mandelbrojt, S.
Théorèmes de composition. 31
*Séries adhérentes, régularisation des suites, applications. 542
Théorèmes de fermeture. 1068
Série de Dirichlet. 1075
Mandžavidze, G. F.
Singular integral equations with discontinuous coefficients. I, II. 762
Manfredi, B.
Equazioni alle derivate parziali del second'ordine. 173
Propagazione del calore. 1090
Manindra Chandra Chaki. See Chaki.
Mann, H. B.
Difference sets. 5
*Stochastic processes depending on a continuous parameter. 663
Addition theorem of Abelian groups. 1058
Mann, H. B., and Ryser, H. J.
Systems of distinct representatives. 1053
Mann, W. R.
Mean value methods in iteration. 988
Manne, A. S.
The strong independence assumption. 393
Manolov, S.
Petits mouvements périodiques d'une configuration mécanique. 215
Manwell, A. R.
Hodograph transformation. 108
Constant velocity aerofoils with circulation. 216
Many, A., Oppenheim, U., and Amitsur, S.
Computer for simultaneous equations. 694
Maple, C. G.
Derivatives of solution of the Neumann problem. 274
Mapleton, R. A.
Diffraction patterns for delay lines. 1040
Maravall Casesnoves, D.
Media with axial symmetry in relativity. 98
Non-Euclidean metric of space-time. 418
Single body in theory of relativity. 1023
Marčenko, V. A.
Summation of generalized Fourier series. 267
Functions normal relative to a symmetric displacement operation. 268
Marchand, E. See Herzberger, M.
Marchand, H.
Lois d'union sélective et de fécondité différentielles. 394
Marchaud, A.
Points singuliers des surfaces de la géométrie finie. 1118
Propriétés différentielles des surfaces d'ordre borné. 1118
Marchionna, E.
Caratterizzazione di curve gobbe. 1010
Marczewski, E. (Cf. Florek, K.)
Congruences et propriétés positives d'algèbres abstraites. 347
Espaces de variables aléatoires. 567
*Théorème ergodique. 1070
Poisson stochastic process. II. 1100
Marczewski, E., et Ryll-Nardzewski, C.
Fonctions de plusieurs variables. 1070
Marczewski, E., and Sikorski, R.
Isomorphism types of measure algebras. 147
Mařík, J.
Lebesgue integral in abstract spaces. 545
Transfer of a group into its subgroups. 946
Marin, J. See Pao, Yoh-Han.
Marini, M.
Forze aerodinamiche d'inerzia sulle ali. 922
Maritz, J. S.
Estimation of correlation coefficient. 996
Markov, A. A.
Unsolvable algorithmic problems. 233
*Selected works. Theory of numbers. Theory of probability. 344
Markov, G. T.
Circular wave-guide. 225
Markovitch, D.
Diviseur de deux polynomes. 164
Composite polynomials. 269
Zéros réels des dérivées. 965
Markovitz, H.
Property of Bessel functions. 373
Markus, L.
Global integrals of $fZ_x + gZ_y = h$. 172
Invariant measures defined by differential equations. 471
Uniqueness theorem for differential equations. 645
Escape times for ordinary differential equations. 646
Invariant measures defined by differential equations. 751
Markuševič, A. I.
*Essays on the history of the theory of analytic functions. 2
Marmaraŝvili, G. A.
Cesàro summability of functions of two variables. 159
Frobenius' theorem for double integrals. 163
Maron, I. A.
Pedagogical views of Ostrogradskiĭ. 525
Marquet, S.
Equations de Boltzmann généralisées. 521
Marre, P. Huard de la. See Huard de la Marre, P.
Marschall, H. See Falk, G.
Marsicano, F. R.
Stability of movement of a nonhomogeneous disc. 99
Martin, B., and ter Haar, D.
Three-dimensional ferromagnet. 522
Martin, C. F.
T-transformations. 551
Martin, D.
Confluent hypergeometric functions. 469
Martin, J. C.
Linearized supersonic flow. 329
Martin, M. H. (Cf. Diaz, J. B.)
Two dimensional flow. 217

Martin, M. H. (Continued)
Propagation of a plane shock. 815
Differential equation $rt - s^2 + \lambda^2 = 0$. 1091
Martin, R. M.
Truth and multiple denotation. 937
Martin, W. T. See Bochner, S.
Martini, G.
Trasformazioni puntuali fra due spazi. 1121
Martirosyan, K. A. Ter-. See Ter-Martirosyan, K. A.
Maruhn, K.
Potentiale von Belegungen. 273
Marušin, M. N.
Bernšteĭn's lemma for sums of almost independent quantities. 1099
Marussi, A.
Arco finito di geodetica. 202
Coordinate intrinseche della geodesia. 1013
Maruyama, G. (Cf. Kunisawa, K.)
Arc sine law in probability theory. 294
Maruyama, T.
Geometry in complex space. II. 902
Marx, G.
Quantentheorie der Wellenfelder. 117
Relativistische Elektrodynamik der Magnete. 704
Masani, P.
What is a function? 147
Masani, P., and Vijayaraghavan, T.
Laurent's theorem for simply connected region. 39
Maschler, M.
Transformation généralisée de série en série. 265
Prolongement analytique. 745
Maslen, S. H.
Supersonic conical flow. 218
Maslov, P. G.
Systems of homogeneous linear equations. 322
Masotti Biggiogero, G.
Singolarità della curva hessiana. 199
Massau, J.
*Mémoire sur l'intégration graphique des équations aux dérivées partielles. 588
Massey, F. J., Jr.
Table for deviation between two sample cumulatives. 63
Correction: "Power of a nonparametric test." 391
Massey, H. S. W.
Obituary: L. J. Comrie, 1893–1950. 524
Massey, W. S.
Exact couples in algebraic topology. I, II, III, IV, V. 672, 1111
Masuda, H.
Lagrange's theorem in hydrodynamics. 1137
Masuda, K.
Direct decompositions of Galois algebras. 530
Masuyama, M.
Approximation to non-central t-distribution. 486
Graphical estimation of parameters. 487
Improved binomial probability paper. II. 487
Misclassification in sampling inspection. 665
Graphical method of statistical inference. III. 667
Distribution of Geary's statistic. 775
Mathéev, A.
Courbes et surfaces réglées de l'espace elliptique. 203
Mathur, P. N.
*Solutions of Chaplygin's equation. 217
Matossi, F.
Irreducible representations of cubic groups. 16
Matschinski, M.
Processus stochastique dans une population. 485
Equations générales des processus stochastiques. 772
Estimation de la probabilité d'une hypothèse. 889
Matsumoto, M.
Space with projective connection. 409
Matsumoto, M. (Continued)
Affinely connected spaces of class one. 409
Bochner's method for Riemannian manifolds. 688
Riemann spaces of recurrent and separated curvature. 903
Matsumoto, N.
Projective properties. I, II, III, IV. 1114
Matsumoto, T.
Integral representation of Mathieu functions. 748
Matsusaka, T.
Construction of the Picard variety. 81
Generating curve of an Abelian variety. 201
Matsushima, Y.
Exceptional simple Lie group $\mathfrak{F}_4$. 533
Matsushita, S.
Lattices non commutatifs. 838
Multiplicative linear functionals on B-algebras. 991
Matsuyama, N.
Summability (C, 1) of Fourier series. 41
Fourier series of $|f(x)|$. 974
Matte, A.
Solutions des équations de la gravitation. 1022
Matthai, A., and Kannan, M. B.
Series of short length. I. 391
Matthews, P. T., and Salam, A.
Pseudoscalar meson-nucleon interaction. 339
Matthieu, P.
Extrapolationsverfahren von Adams. II. 800
Berechnung der Hypoidgetriebe. I. 808
Mattila, S.
Biorthogonal expansions of conjugate random functions. 993
Mattioli, E.
Gruppi abeliani finiti. 616
Matulewicz, K.
Congruence en nombres composés. 20
Matusita, K.
Correction: "Statistical decision functions." 488
Matusita, K., and Akaike, H.
Decision problem. 570
Matusima, Y.
Some problems of Birkhoff. 9
Maue, A.-W.
Die Kantenbedingung in der Beugungstheorie elastischer Wellen. 223
Beugung elastischer Wellen. 929
Maurin, K.
Almost periodic vectors. 990
Mautner, F. I.
Induced representations. 134
Eigenfunction expansions. 659
Maxfield, J. E.
Normal k-tuples. 851
May, K. O.
Conditions for simple majority decision. I, II. 392, 778
Mayanc, L. S.
Roots of secular equations of high degrees. 1129
Mayberry, J. P. See Gillies, D. B.
Mayot, M.
Tables de fonctions intervenant dans photométrie. 906
Mayrhofer, K.
*Inhalt und Mass. 733
Mazur, P.
Entropie minimum dans systèmes continus. 438
Mazur, S.
Generalized limit of bounded sequences. 159
Continuous mappings on Cartesian products. 1107
Medlin, G. W.
Characteristic roots of matrices. 836
Medvedev, B. V. See Bonč-Bruevič, V. L.
Medvedev, Yu. T.
Compactness of families of functions. 1072

Medwin, H., and Rudnick, I.
Vorticity in acoustic fields. 1035
Meffroy, J.
Généralisation des équations canoniques. 100
Développement des grands axes. 802
Terms séculaires du développement des grandes axes. 1132
Meier, K.
Satz von Looman-Menchoff. 150
Meier, R., und Schuster, K.
Schallausbreitung in piezoelektrischen Kristallen. 820
Meijer, C. S.
Expansion theorems for the *G*-function. I, II, III, IV. 469, 642, 748, 979
Meĭman, N. N.
Differential inequalities and zeros of entire and single-valued functions. 259
Meister, F.
*Magische Quadrate. 247
Meĭzler, D. G.
Problem of Gnedenko. 186
Meĭzler, D. G., Parasyuk, O. S., and Rvačeva, E. L.
Many-dimensional local limit theorem. 61
Meller, N. A.
Models of the elliptic plane. 576
Melvin, M. A.
New classical electrodynamics. 1045
Melyahoveckiĭ, A. S.
Integral equation of vibrations of a bar. 223
Mendelsohn, N. S.
Representations of positive real numbers. 544
Mendes, M.
Équations de Lagrange et équations canoniques. 100
Équations se ramenant à la forme canonique. 171
Problème des deux corps. 910
Transformations canoniques générales. 917
Menger, K.
Théorie axiomatique des déterminants. 6
Men'šov, D. E.
Limits of indeterminacy of Fourier series. 40
Fourier series of continuous functions. 161
Fourier series of summable functions. 161
Trigonometric series. 745
Partial sums of trigonometric series. 974
Mercalov, N. I.
*The theory of spatial mechanisms. 1135, 1139
Mercier, A. (Cf. Wilkes, P.)
*Leçons sur les principes de l'électrodynamique classique. 604
Mergelyan, S. N.
*Constructive theory of functions. 165
Uniform approximations of functions of a complex variable. 547
Representation of functions by polynomials. 858
Theorem of Lavrent'ev. 858
Merkulov, V. I.
Problem of Žukovskiĭ. 507
Merman, G. A.
Radius of convergence of Hill's series. 590
Hyperbolic-elliptic motion in problem of three bodies. 590
Mersman, W. A.
Integral occurring in servomechanism theory. 455
Meschkowski, H.
Extremalprobleme der konformen Abbildung. 367
Messel, H.
Theory of a nucleon cascade. 563
Fluctuation problem in nucleon cascade theory. I, II. 773, 774
Messel, H., and Potts, R. B.
Fluctuation problem in cascade theory. 774
Fluctuation problem in finite absorber. 774
Metelicyn, I. I.
Gyroscopic stabilization. 421
Metropolis, N., and Ulam, S.
Randomness of an arithmetical function. 770
Metz, A.
Transformations de Lorentz ne forment pas un "groupe." 1061
Meulenbeld, B. See Kuipers, L.
Meyer, B.
Convergence of alternating double series. 973
Meyer, R. E.
Waves of finite amplitude in ducts. I, II. 329
Meyer-König, W.
Limitierung von Funktionen. 265
Lückenumkehrsatz von H. R. Pitt. 865
Michael, D. H.
Flows of electrically conducting fluids. 596
Michael, E. A.
Locally multiplicatively-convex topological algebras. 482
Linear space with weak topology. 563
Michailovitch, D.
Problème particulier de n corps. 101
Problème des trois corps. 101
Michalup, E.
Interpolation formulae. 321
Michiura, T.
Groupes ordonnés. II, III. 19
Michkovitch, V. V.
Equations linéaires à l'aide des cracoviens. 501
Middleton, D.
Detection of pulsed carriers in noise. I, II. 1105
Midzuno, H.
Sampling system. 390
Mieghem, J.-M. Van. See Van Mieghem.
Mihăilescu, T.
Correspondences in a point of a nonholonomic variety. 1121
Mihaĭlov, G. K.
Filtration in trapezoidal dikes. 1139
Mihailović, D. See Michailovitch, D.
Mihalevič, V. S. (Cf. Gnedenko, B. V.)
Empirical distribution functions. 297
Mihaljinec, M.
Problème de Fermat. 20
Mihlin, S. G.
Computation of elastic shell as a flat plate. 600
Boundedness of singular integral operator. 762
Mii, H.
Plastic deformation of hollow spheres. II. 223
Mikaèlyan, A. L.
Inverse problem of geometric optics. 431
Nonhomogeneous media with given trajectories of rays. 517
Mikeladze, Š. E.
Elastic line of a beam. 517
Integral method of solution of boundary problems. 649
Approximate solution of integral equations. 694
Approximate formulas for multiple integrals. 907
Construction of interpolation formulas. 1126
Mikhail, F. I.
Relativistic clock problem. 417
Mikhail, M. N.
Basic sets of polynomials. 641
Mikolás, M.
Summatorische Funktionen. 950
*General integral formula. 1073
*Extension de la formule d'Euler-MacLaurin. 1073
Mikusiński, J. G. (Cf. Finkelsztejn, L.)
Generalized power-series. 39
Theorem on moments. 40
Milatz, J. M. W., Wapstra, A. H., and Van Wieringen, J. S.
Method for Fourier analysis. 801
Miles, J. W.
Supersonic wing integral equations. 109
Unsteady motion of wing. 219
Damping in roll of cruciform winged body. 427

Miles, J. W. (Continued)
Wave equation in hyperbolic space. 474
Solution for rectangular airfoil in supersonic flow. 815
Acoustic diffraction through an aperture. 816
Diffraction of an acoustic pulse. 816
Diffraction of an electromagnetic pulse. 822
Transient loading of baffled piston. 923
Transient loading of baffled strip. 924
Milicer-Grużewska, H.
Deux variables aléatoires dépendantes. 993
Miller, A. R.
Concept of temperature. 710
Miller, C.
Second homology group of a group. 133
Topology of rotation groups. 673
Miller, G. A.
Finite Markov processes. 188
Miller, J. C. P. (Cf. Bickley, W. G.)
Standard solutions to Weber's equation. 49
Sum of integral parts in an arithmetical progression. 536
Miller, K. S.
Self-adjoint differential systems. 472
Green's function of a differential system. 556
Miller, K. S., and Schiffer, M. M.
Green's functions of differential systems. 50
Monotonic properties of Green's function. 755
Miller, M. A.
Propagation of electromagnetic waves. 604
Milloux, H.
Propriété des fonctions méromorphes. 34
Mills, W. H.
Non-isomorphism of certain holomorphs. 946
Quadratic Diophantine equations. 950
Millsaps, K., and Pohlhausen, K.
Thermal distributions in flows. 697
Mil'man, D. I. (Cf. Kontorovič, P. G.)
Integral representations of functions of several variables. 546
Milner, S. R.
Eddington's E-numbers and tensor calculus. I, II. 410
Milne-Thomson, L. M.
Finite deformations and elasticity. 221
Plane elastic problems. 600
Milnor, J.
*Sums of positional games. 779
Mimura, Y. (Cf. Suura, H.)
Theorem of Toeplitz. 385
Minagawa, T., and Radó, T.
Infinitesimal rigidity of surfaces. 794
Minakshisundaram, S. See Chandrasekharan, K.
Minasyan, R. S.
Mixed boundary problem for Laplace equation. 46
Unsteady heat flow. 382
Mineo, C.
Configurazioni d'equilibrio dei pianeti fluidi rotanti. 415
Gaspare Mignosi. 833
Mineo, M.
Deviazione della geodetica. 1119
Mineur, H.
Points singuliers des systèmes canoniques. 100
Calcul numérique des intégrales doubles. 413
Mineur, H., et Peyturaux, R.
Equation intégrale d'assombrissement. 908
Ming Chen Wang. See Wang.
Minorsky, N.
Systèmes à l'action retardée. 53
Nonlinear differential equations. 170
de Mira Fernandes, A.
Generalizzazione della serie di Fourier. 975
Miranda, C.
Integrazione delle forme differenziali esterne. 46
Sistemi di tipo ellittico di equazioni a derivate parziali. 175
Miranda, C. (Continued)
Equazioni di tipo ellittico. 279
Derivate di una funzione armonica hölderiana. 555
Mirianašvili, M. M.
Relativistic magnetic moment of charged particles. 339
Mirimanov, R. G.
Reflection of electromagnetic waves. 518
Diffraction of spherical electromagnetic wave. 518
Mirolyubov, A. A.
Differential-difference equations. 285
Mirsky, L. See Erdös, P.
Miščenko, E. F.
Class of nonclosed sets and their duality theory. 397
Combinatorial topology of nonclosed sets. 670
von Mises, H. G. See Geiringer, H.
von Mises, R. (Cf. Gillis, P. P.)
Grundfragen der Hydrodynamik. 328
Network methods in conformal mapping. 800
*Fluid flow theory. 1032
Mishra, R. S.
Generators of a ruled surface. 203
Ruled surfaces through line of a rectilinear congruence. III. 315
Courbes dans un sous-espace d'un espace riemannien. 317
Isotropic congruences. 404
Congruence of curves. 581
Normal rectilinear congruences. 582
Hyper-asymptotic curves of a Riemannian hypersurface. 688
$(m$-$n)$ congruences of curves. 793
Mišík, L.
Ordered continuum. 146
Mišina, A. P.
Complete direct sums of abelian groups. 133
Mišković, V. V. See Michkovitch, V. V.
Mišoň, K.
Definition of Bernoulli numbers. 478
Misonou, Y.
Weakly central operator algebra. 566
Misonou, Y., and Nakamura, M.
Centering of an operator algebra. 58
Misonou, Y., and Takeda, Z.
Compactification of topological spaces. 303
Misra, B.
Bose numbers. 950
Misra, M. L.
Summability of derived series of a Fourier series. 370
Cesàro summability of trigonometric series. 552
Mitchell, A. R., and Craggs, J. W.
Difference relations in solution of differential equations. 908
Mitchell, A. R., and McCall, F.
Field behind a bow shock wave. 425
Mitchell, B. E. (Cf. Parker, W. V.)
Normal and diagonalizable matrices. 610
Mitchell, J.
Kernel function in geometry of matrices. 368
Multiple Fourier series. 370
Mitra, S. C., and Bose, B. N.
Operational calculus. 555
Mitropol'skiĭ, Yu. A.
Oscillations in nonlinear systems. 49
Mitrović, Dragiša.
Théorème de Rouché. 32
Intégral de Dirichlet. 980
Mitrović, Dusan, and Tomović, R.
Heat-flow equation on a.c. network analyser. 210
Mittmann, O. M. J.
Approximation einer Wahrscheinlichkeitsverteilung. 886
Miyadera, I.
One-parameter semi-group of operators. 564
Strongly continuous semi-group operators. 564

Miyasawa, K.
Statistical decision function. I. 65
Minimax estimations. 666
Miyatake, O.
Field equations in quantum mechanics. 705
Miyatake, O., and Watanabe, K.
Coulomb energy of liquid-drop. 750
Miyazaki, H.
Paracompact spaces. 70
Covering homotopy theorems. 73
Paracompactness of CW-complexes. 894
Mizohata, S.
Periodic solutions for nonlinear circuits. 874
Mizohata, S., and Yamaguti, M.
Periodic solutions of a non-linear differential equation. 874
Mizushima, M. See Ishiguro, E.
Moessner, A.
On a multiple identity. 136
Problemi diofantei elementari. 136
Potenzen der natürlichen Zahlen. 353
Property of Pythagorean numbers. 724
Equation $x^m = py^m + (-1)^m$, $m = 1, 2$. 725
Due problemi diofantei. 725
Diophantine problem. 725
Moh, Shaw-Kwei.
Theory of quantification. 440
Mohnsame, M.
Processus stochastiques et interprétation des équations de Matschinski. 889
Mohr, E.
Konvexe Funktionen. 254
Sturm-Liouvillesches Eigenwertproblem. 278
Konstruktion der Greenschen Funktion. 378
Berichtigung: Fundamentalsatz der Algebra. 465
Tschebyscheffsche Polynome.. 978
Partialbruchzerlegung des Cotangens. 1080
Moise, E. E. (Cf. Harrold, O. G., Jr.)
Affine structures in 3-manifolds. V, VI. 72, 1003
Remark on $\mathfrak{L}^*$-spaces. 303
Claytor imbedding theorem. 396
Moiseev, N. N.
Body containing liquid with free surface. 811
Body having hollow partly filled by liquid. 811
Oscillations of a heavy liquid. 811
Pendulums filled with liquid. 811
Molčanov, A. M.
Spectrum of a differential equation. 473
Møller, C.
*The theory of relativity. 212
Non-local field theory. 436
Molnár, J.
Inhaltsabschätzung eines sphärischen Polygons. 401
Ausfüllung und Überdeckung eines konvexen Gebietes. 788
Monaghan, R. J.
Associated mass in water impacts. 216
Designing corner channels and cascades. 216
Monin, A. S.
Variation of pressure in atmosphere. 332
Monna, A. F.
Théorème de Koksma concernant approximations diophantiques. II. 620
Classe d'espaces linéaires normés. 767
Mönnig, P.
Hamilton-Jacobische Differentialgleichung. 379
Montaldo, O.
Sistemi di Riccati. 277
Montgomery, D., and Zippin, L.
Small subgroups of finite-dimensional groups. 135
Monticelli, F.
Equazioni della cascata elettrofotonica. 880
Montroll, E. W.
Markoff chains, Wiener integrals, and quantum theory. 663
Montroll, E. W., and Hart, R. W.
Scattering of plane waves by soft obstacles. II. 110
Moody, E. A., and Clagett, M., editors.
*The medieval science of weights. 1049
Moon, P., and Spencer, D. E.
Laplace and Helmholtz equations. 173
Separability in class of coordinate systems. 173
Separability in Riemannian n-space. 173
Separation of Laplace's equation. 756
Theory of the photic field. 822
Moór, A. (Cf. Horváth, J. I.)
Scheitelpunkte der zwei- und dreidimensionalen Kurven. 198
Affinzusammenhängende Linienelementmannigfaltigkeiten. 321
Dualität von Finslerschen und Cartanschen Räumen. 689
Finslersche Räume mit algebraischen Grundfunktionen. 904
Moore, M. G.
Quasi-relativistic theory of gravitation. 1134
Moore, P. G.
Estimation of Poisson parameter. 391
Sequential test for randomness. 1104
Moore, R. L.
Spirals in the plane. 783
Moppert, K.-F.
Verallgemeinerter Ableitungsoperator. 957
Morawetz, C. S.
Stability problems involving viscosity. 509
Morawetz, C. S., and Kolodner, I. I.
Limiting lines in transonic flows. 1033
Mordell, L. J.
Product of linear forms. 142
Congruence $ax^2 + by^2 + c \equiv 0 \pmod{xy}$. 536
Minima of non-homogeneous functions of two variables. 540
Morduhaĭ-Boltovskoĭ, D. D.
Curvature in Lobačevskiĭ space. 405
Moreau, J.-J.
Profil portant en régime non stationnaire. 331
Bilan dynamique d'un écoulement rotationnel. 1027
Morgan, G. W.
Class of eigenvalue problems. 875
Slow motions in a rotating fluid. 1027
Morgan, S. P., Jr.
Laminated transmission lines. I, II. 338, 434
Morgantini, E.
Tipo notevole di equazioni diofantee. 247
Relazione di armonia fra i triangoli. 576
Equazione diofantea: $\Sigma_i a_i x_i^3 = x_0^{3m} \Sigma_i a_i$. 725
Equazione diofantea: $\Sigma_i a_i x_i^3 = \Sigma_i a_i y_i^{3m}$. 725
Varietà unirazionali ed analisi diofantea. 725
Centri ed assi di simmetria delle curve algebriche. 897
Mori, A. (Cf. Komatu, Y.)
Prolongation of Riemann surfaces. 263
Class O_{HD} of Riemann surfaces. 264
Riemann surfaces, on which no bounded harmonic function exists. 367
Moriguti, S.
Schwarz's inequality and distributions. 731
Morimura, H.
Sums of independent random variables. 294
Morishima, M.
Consumer's behavior and liquidity preference. 891
Morita, Kiiti.
Extension of a space with respect to a uniformity. I, II, III, IV. 68, 69, 571
Group rings over a modular field. 246
Bicompactifications of semibicompact spaces. 571
Dimension of product spaces. 893
Moriya, M.
Derivationen und Körperdifferenten. 952

Moriya, M. (Continued)
Halb-topologische Gruppen und Körper. 18
Gültigkeit der Klassenkörpertheorie im Kleinen. 452
Morlat, G.
Fonctions aléatoires. 485
Loi de Poisson. 485
Morozov, V. V.
Algebraic manuscripts of Lobačevskiĭ. I, II. 524, 832
Morozova, E. A.
Shortest lines on surfaces of revolution. 686
Morpurgo, G.
Elettrodinamica classica e quantistica. 520
Morrey, C. B., Jr.
Quasi-convexity and lower semicontinuity of multiple integrals. 992
Morris, J.
Routh's stability criterion. 977
Linear simultaneous differential equations. 376
Morrison, C. L. See Ludeke, C. A.
Morse, A. P. See Bledsoe, W. W.
Morse, M. See Jenkins, J. A.
Moser, L.
Non-averaging sets of integers. 726
Diophantine equation $1^n + 2^n + \cdots + (m-1)^n = m^n$. 950
Moses, H. E.
Schwinger's variational principle for Dirac's equation. 756
Canonical transformation for electron-positron field. 828
Moshinsky, M.
Dispersion caused by a rigid sphere. 828
Diffraction in time. 828
Transformations in nuclear scattering. 877
Mostow, G. D.
Extensibility of local Lie groups. 18
L^2-space of a Lie group. 245
Mostowski, A. (Cf. Kuratowski, C.)
*Sentences undecidable in formalized arithmetic. 3
Groups connected with Boolean algebras. 131
Models of axiomatic systems. 938
Motz, L.
Gauge invariance and classical electrodynamics. 825
Motzkin, T. S., and Schoenberg, I. J.
Entire functions of n complex variables. 157
Motzkin, T. S., and Taussky, O.
Pairs of matrices with property L. 236
Representations of finite groups. 723
Motzkin, T. S., and Wasow, W.
Approximation of elliptic equations by difference equations. 693
Motzkin, T. S., Straus, E. G., and Valentine, F. A.
Number of farthest points. 1115
Moullin, E. B., and Phillips, F. M.
Current induced in a ribbon by electromagnetic wave. 703
Mourier, E. (Cf. Fortet, R.)
Tests de choix. 191
Eléments aléatoires dans espace de Banach. 662
Mower, L.
Tables for second Born approximation scattering. 799
Moyal, J. E.
Spectra of turbulence in a compressible fluid. 106
Mo Yeh. See Yeh.
Mrówka, S.
Ensembles fermés et bornés. 960
Muggia, A.
Interferenza ala-fusoliera. 109
Muhin, I. S.
Numerical integration of differential equations. 587
Mukherjee, B. N. See Srinivasiengar, C. N.
Mukherjee, Santi Ram.
Compressible fluid with varying viscosity. 700
Mukherji, Bhola nath. See Bagchi, Hari das.
Mukherji, Biswarup. See Bagchi, Hari das.
Mulè, G.
Criterio di convergenza uniforme. 856
Mulholland, H. P.
Hartley-Khamis solution of the moment-problem. 389
Inequality related to central limit theorem. 993
Müller, A.
Schaubarkeit in der Axonometrie. 194
Müller, C.
Grundoperationen der Vektoranalysis. 374
Methode der Strahlungskapazität von H. Weyl. 518
Randwertprobleme der Theorie elektromagnetischer Schwingungen. 1043
Müller, Hans Robert.
Drehvorgänge und Verbiegungen im elliptischen Raum. 86
Mehrgliedrige Bewegungsvorgänge. 198
Hüllkurven monofokaler Kegelschnitte. 405
Eigenschaften des Strahlgewindes. 405
Satz von Malus und Dupin. 405
Bewegungsvorgänge im elliptischen Raum. I. 1014
Müller, W.
Reibungsstoss einer Kugel. 215
Fundamentplatten und Pilzdecken. 925
Wärmeübertragung bei der kompressiblen Gasströmung. 1141
Mulligan, J. F. See Brennan, R. O.
Mullins, E. R., Jr.
*Straight line plane with preassigned circles. 399
Munakata, K.
Nonlinear oscillations. 557
Munford, C. M. See Clemmow, P. C.
Munk, W. H., and Arthur, R. S.
*Wave intensity along a refracted ray. 918
Munroe, M. E.
*Introduction to measure and integration. 734
Muracchini, L.
Varietà V_s i cui spazi tangenti ricoprono una varietà W di dimensione inferiore. I, II. 79, 316
Varietà quasi-asintotiche. I, II. 205
Deformazione proiettiva delle trasformazioni puntuali. 205
Trasformazioni puntuali fra spazi. 316
Trasformazioni cremoniane che conservano le aree od i volumi. 680
Geometria proiettiva differenziale dei 3-tessuti. 685
Trasformazioni puntuali analitiche fra spazi euclidei. 1114
Murai, T., and Araki, G.
Heteronuclear molecular integrals. 643
Murai, Y.
Transformations in six-dimensional space. 947
Murakami, M.
Ratio and regression estimates. 190
Murakami, S.
Real semi-simple Lie algebra. 531
Murav'ev, Yu. K. See Kontorovič, M. I.
Murden, W. P., Jr.
Rigid body with nonholonomic constraint. 1024
Murnaghan, F. D.
Poincaré polynomial of full linear group. 134
Poincaré polynomials of classical groups. I, II. 134, 619
Representations of the linear group. 244
Invariant theory of the classical groups. 447
Decomposition of tensors by contraction. 533
Characters of symmetric group. 843
*Parameters for rotation group and unitary group. 843
Unitary symplectic group. 1061
Murphy, J. S.
Laminar boundary-layer flow. 919
Mursi, Z.
Integral function of given order. 258
Murray, F. J. See Brock, P.
Murray, I. M. See Mainland, D.
Murthy, S. N. B.
Unsteady compressible flow. 1141

Murty, V. N.
Skewness in bivariate normal population. 389
Musatov, O. S. Ivašev-. See Ivašev-Musatov, O. S.
Muscia, C.
Lente elettronica. 432
Mushelišvili, N.
G. Nikoladze. 525
Muštari, H. M.
Elastic equilibrium of plates and shells. 1035
Equilibrium of a thin shell. 1036
Muštari, H. M., and Vinokurov, S. G.
Elastic equilibrium in boundary zone of thin shells. 1035
Mustel', È, R. See Ambarcumyan, V. A.
Muto, T., and Inoue, K.
Dirac's method in field theory. 1045
Mutō, Y.
Affinely connected space admitting a group of affine motions. 584
Myard, F.
Résolution grapho-mécanique des intégrales $\int_0 y^n x\,dy$. 907
Résolution grapho-mécanique des relations $\varphi_{(x)} = f_{(x)} \cdot f'_{(x)}$, $\psi_{(x)} = f_{(x)}/f'_{(x)}$. 1021
Mycielski, J.
Représentations des nombres naturels. 20
Myers, D. M. See Wittrick, W. H.
Myhill, J.
Hypothesis that all classes are nameable. 440
Metalanguage for extended basic logic. 526
Derivation of number theory. 527
Interpretation of the sign '$\supset$'. 936
Constructibility for real numbers. 938
Myklestad, N. O.
Forced vibrations of beams. 693
Myrberg, L.
Greensche Funktionen in der Nähe des Randes. 744
Harmonische Funktionen auf Riemannschen Flächen. 979
Myrberg, P. J.
Automorphe Thetafunktionen. 262
*Automorphe Funktionen und Riemannsche Flächen. 743
Schlichte konforme Abbildungen. 861
Myrhøj, A. M. S.
Root extraction. 800
Myškis, A. D.
Mixed problem for systems of linear differential equations. 51
*Linear differential equations with retarded argument. 52
Differential equations with retarded argument. 285
Transition from first boundary problem. 379
Boundary problem for telegraph equations. 656
Infinitesimal spaces and topological spaces. 1001
Mysovskih, I. P.
Convergence of Newton's method. 587

Nabarro, F. R. N., and Varley, J. H. O.
Stability of hexagonal lattices. 232
Nabeya, S.
Absolute moments in normal distribution. 569
Nachbar, W. See Heyman, J.
Nachbin, L.
Functionals positive on increasing continuous functions. 288
Duality theorem for commutative groups. 350
*Problems of functional analysis. 563
Nádeník, Z.
Courbes de Bertrand. 791
el-Nadi, M.
Théorie du photon. 829
Nadile, A.
Teorema di Liouville sull'integrazione dei sistemi canonici. I, II. 100
Sistemi anolonomi. I, II, III, IV. 506, 917
Strato vorticoso non omogeneo. 696
Nadile, A. (Continued)
Configurazioni di equilibrio di una massa liquida. 801
Onde elettromagnetiche entro un cavo cilindrico. 1149
Naftalevič, A. G.
Functions meromorphic in unit circle. 858
Nagabhushanam, K.
Stationary time series. 998
Nagai, O.
Brauer's theorem of simple groups. 843
Nagai, Y.
Boundary of Riemann surfaces. I, II. 367
Nagao, H.
Extensions of groups. 1060
Modular representations of symmetric groups. 1061
Nagata, J.
Uniformly homeomorphic uniform spaces. I, II. 892
Topological spaces and lattices. 892
Nagata, M.
Corrections: "Structure of complete local rings." 529
Theory of Henselian rings. 529
Ideal-theoretic observation on valuations. 529
Nilpotency of nil-algebras. 719
Subdirect sums of rings. 719
Semi-local rings. 719
Groups with involutions. 1059
Nagell, T.
Diophantische Gleichung $u^2 - Dv^2 = C$. 19
nth non-power-residue modulo p. 21
Plus petit non-reste quadratique impair. 247
Théorème d'Axel Thue. 247
Restes et non-restes cubiques. 248
Théorème arithmétique sur les coniques. 578
Corps résolvants des coniques, cubiques et quartiques. 578
*Plane cubics of genus one. 789
Arithmétique des cubiques planes. 1010
Nagler, H.
Matrix product with specified latent roots. 837
Nagumo, M.
Degree of mapping in Euclidean spaces. 305
Nagumo, M., et Simoda, S.
Inégalité concernant équations du type parabolique. 172
Nagura, J.
Interval containing at least one prime. 355
Nagura, S. (Cf. Komatu, Y.)
Kernel functions on boundaries. 156
Nagy, B. Sz.-. See Sz.-Nagy, B.
Nagy, G. Sz.-. See Sz.-Nagy, G.
Naĭmark, M. A. (Cf. Gel'fand, I. M.)
Representations of the classical groups. 16
Deficiency index of linear differential operators. 277
Singular non-self-adjoint differential operators. 473
Nair, K. R.
Partially balanced incomplete block designs. 191
Rectangular lattices. 836
Unsolved problems in experimental designs. 998
Nakada, O.
Partially ordered abelian semigroups. II. 945
Nakahara, I.
Classe projective d'un ensemble. 455
Nakai, Y.
Genus of algebraic curves. 680
Nakamori, K.
Nonlinear boundary problem for $\Delta u + cu = f(x, y)$. 176
Nakamura, M. (Cf. Misonou, Y.)
Complete continuities of linear operators. 183
Nakamura, M., and Takeda, Z.
Radon-Nikodým theorem for an operator algebra. 1096
Nakamura, M., and Turumaru, T.
Representations of functions on a topological group. 17
Algebras of completely continuous operators. 990

Nakamura, M., and Umegaki, H.
Theorems of Stone and Bochner. 17
Nakamura, T.
Statistical mechanics of cooperative phenomena. 438
Nakano, H.
Many electron problem. 1047
Nakano, S.
Group varieties. 201
Nakaoka, M.
Exact sequences $\sum_p(K, L)$. 1111
Nakashima, K.
Note on subordination. 549
Nakayama, T.
Double-modules over arbitrary rings. 129
Galois theory of simple rings. 240
Frobenius- and quasi-Frobenius-algebras. 240
3-cohomology class in class field theory. 453
Galois cohomology. 615
Commutativity of division rings. 719
Cohomology of algebraic number fields. 952
Nambu, Y.
Lagrangian and Hamiltonian formalism. 227
Nanda, V. S.
Tables of solid partitions. 1062
Nanjundiah, T. S. See Thiruvenkatachar, V. R.
Nanming Liu. See Liu.
Narain, R. D. See Sukhatme, P. V.
Naravana Singh, Udita. See Singh, U. N.
Nardini, R.
Equazione integro-differenziale della fisica-matematica. 562
Valor medio dello stress. 700
Magneto-dinamica dei fluidi compressibili. 1032
Onde magneto-idrodinamiche. 1032
Nardzewski, C. Ryll-. See Ryll-Nardzewski.
Nariai, H.
Cosmological solution of Einstein's field equations. 1133
Static solutions of Einstein's field equations. 1133
Narlikar, V. V.
*General relativity and unified field theory. 805
Narlikar, V. V., and Singh, K. P.
Stationary gravitational fields. 914
Nash, J.
Real algebraic manifolds. 403
Two-person cooperative games. 778
Nassif, M.
Behaviour of $f(z) = \sum_0^\infty \exp[2^{1/2}\pi i n^2] z^{2n}/n!$. 32
Nasu, Y.
Torse-forming directions in Finsler spaces. 499
Natucci, A.
Problema di Fermat. 20
Leonardo geometra. 832
Calcolo di certi integrali. 959
Teorema fondamentale della proiettività. 1007
*Proporzioni nel Rinascimento italiano. 1049
Origini della teoria delle funzioni ellittiche. 1049
*Guglielmo Libri come storico della matematica. 1051
Neamtan, S. M., and Vogt, E.
Mechanics of fields. 382
Nedelkow, I.
Schwerkraftsverteilung in der Nähe homogener Körper. 910
Nedospasov, A. V.
Sound from rotation. 220
Negri, D.
Determinante studiato dal prof. Ascoli. 685
Nehari, Z.
Weighted kernels. 742
*Kernel function and construction of conformal maps. 861
Neiss, F.
*Einführung in die Zahlentheorie. 450
Neĭsuler, L. Ya.
Representations of functions of n variables. 504
Nelipa, N. F.
"Radiating" electron. 437
Nelson, L. See Albert, G. E.
Nemyckiĭ, V. V.
Qualitative theory of differential equations. 753
Néron, A.
*Diviseurs sur variétés algébriques. 580
Neuber, H.
Druckstabilität der Sandwichplatte. I, II. 820
Neugebauer, H. E. J.
New method for diffraction problems. 518
Neugebauer, O.
Tamil astronomy. 523
Neumann, B. H., and Neumann, Hanna.
Partial endomorphisms of groups. 351
Neumann, Hanna. See Neumann, B. H.
Neumann, H.
Fläche 2. Ordnung. 195
von Neumann, J. (Cf. Gillies, D. B.)
Communication on the Borel notes. 668
*Zero-sum two-person game. 998
von Neumann, J., and Goldstine, H. H.
Conjecture of Kummer. 1126
Neustadter, S. F.
Multiple valued harmonic functions. 46
Nevanlinna, R.
Vertauschbarkeit der Differentiationen. 257
*Gauss-Bonnetscher Satz. 263
Metrische lineare Räume. I, II, III. 287, 658
Erweiterung der Theorie des Hilbertschen Raumes. 658
Polygondarstellung einer Riemannschen Fläche. 743
Neves Real, L.
From the rational numbers to the real numbers. 960
Neville, E. H.
Restricted cubics. 163
Codifying of tree-structure. 1000
Newburgh, J. D.
Variation of spectra. 481
Metrization of finite dimensional groups. 949
Newman, M.
Modular identities. 250
Certain infinite products. 951
Newman, M. H. A.
Path-length and linear measure. 733
Newmark, N. M. See Austin, W. J.
Newns, W. F.
Representation of analytic functions by series. 968
Newton, I.
*Opticks, or a treatise of the reflections, refractions, inflections and colours of light. 1
*Lectiones opticae. 1
*Arithmetica universalis, sive de compositione et resolutione arithmetica liber. 122
*Optics. 525
*Mathematical principles of natural philosophy. 525
*Philosophiae naturalis principia mathematica. 833
Newton, R. G.
Theory of blast shock. 329
Newton, R. H. C.
Quasi-commutable infinite matrices. 939
Neyman, J. (Cf. Bates, G. E.)
*Lectures and conferences on mathematical statistics and probability. 664
Neyman, J., and Scott, E. L.
Spatial distribution of galaxies. 803
Ničе, Vilim.
Plücker's and other conoids. 900
Conoïde de Plücker. 900
Strophoidal and space curve of 4th order. 900
Strophoïdale et courbe gauche cyclique. 901

Niče, Vilko.
Surfaces strophoïdales du 3e ordre. 315
Géométrie du tétraèdre. 674
Nichomachus of Gerasa.
*Introduction to arithmetic. 525
Nickel, K.
Integralgleichung für ein Flügelgitter. 54
Spezielle Tragflügelsysteme. 811
Lösung von Integralgleichungssystemen. 988
Nicola, R. N. See Gordon, B. M.
Nielsen, J. (Cf. Bundgaard, S.)
*Textbook in rational mechanics. III. 215
Nigam, S. D.
Advancement of fluid over a plate. 595
Nigam, Swami Dayal, and Rangasami, Kumandur Srinivasa Iyengar.
Boundary layer on rotating sphere. 1139
Niini, R.
Nichtkonstruierbare Riemannsche Fläche. 744
Nijboer, B. R. A., et van Hove, L.
Fonction de distribution d'un gaz. 231
Radial distribution function of a gas. 231
Nijenhuis, A.
*Theory of the geometric object. 320
Nikodým, O. M. (Cf. Berg, W. D.)
Basic notions in Boolean lattices. I. 126
Locally convex linear topological spaces. 182
Continuity of linear functionals. 563
Nikoladze, G.
Continuous systems of geometric figures. 581
Nikoladze, N. M. Polievktov-. See Polievktov-Nikoladze, N. M.
Nikolenko, V. N.
Integro-differential equation of Fredholm type. 562
Nikol'skiĭ, S. M.
Quadrature formulas. 24
*Inequalities for entire functions. 32
*Approximation of differentiable functions. 1083
Nilsen, N. Vogt-. See Vogt-Nilsen.
Ninomiya, N.
Suite convergente de distributions de masses. 469
Problème de Dirichlet. 643
Niordson, F. I. N.
Shock waves in thinwalled tubes. 511
Nirenberg, L.
Maximum principle for parabolic equations. 1089
Nishijima, K.
Lagrangian formalism. 826
Nishimura, J., and Kamata, K.
Theory of cascade showers. I. 879
Nishiyama, T.
Quantum theory of boson assemblies. I, II. 710, 1048
Nisida, T.
Inverse function of Poisson process. 293
Nisigaki, H.
Quaternion-functions. I, II. 633
Nisnevič, L. B.
Scheme of Markov's urns. 1099
Nitsche, Joachim.
Flächen, deren Bogenelement negativer Krümmung als Quadratsumme zweier Pfaffscher Formen gegeben ist. 86
Quasilineare elliptische Differentialgleichungssysteme. 986
Lineares elliptisches Differentialgleichungssystem. 986
Nitsche, Joachim, und Nitsche, Johannes.
Niveauflächen einer Potentialfunktion. 791
Nitsche, Johannes. See Nitsche, Joachim.
Niven, I.
Error term in interpolation formulas. 411
Nöbeling, G.
Jordanscher Kurvensatz und zwei damit zusammenhängende Sätze. 192
Noble, M. E.
Taylor series with gaps. 738
Non-measurable interpolation sets. III. 858
Nocilla, S.
Ala triangolare a velocità ipersonica. 331
Noguchi, H.
Absolute neighborhood retracts. 193
Mappings defined on 2-spheres. 1003
Manifolds in sense of Poincaré. 1110
Nollet, L.
Anneaux premiers. 128
Serie di Severi. 311
*Courbes quasi irréductibles d'une surface algébrique. 681
Anneaux dont tout sous-anneau est un idéal. 1056
Nomokonov, M. K.
Integral equations with stochastic kernel. 53
Nomura, Y., and Kawai, N.
Acoustic field of a vibrating source. 513
Radiation of sound from a vibrating plate. 513
Nonweiler, T.
Boundary layer in slip flow. 1034
Norden, A. P.
Geometrical theory of finite deformations. 319
Space with degenerate metric. 584
Conformal Euclidean space of Weyl. 688
Polar normalization in space with degenerate absolute. 795
*125 years of non-Euclidean geometry. 832
*Fundamental theorems of Lobačevskiĭ's geometry. 833
Norden, A. P., and Cypkin, M. E.
Ruled surfaces and curves of Riemannian space. 408
Nordon, J.
Intégrabilité d'une équation différentielle. 378
Nørlund, N. E.
Séries hypergéométriques. 469
Norman, R. Z. See Harary, F.
Norris, M. J.
Convergence of infinite series and improper integrals. 552
Cofinally concentrated directed systems. 733
Northcott, D. G.
Integrally closed geometric quotient rings. 900
Hilbert's function in local ring. 941
Norton, D. A.
Orthogonal row-latin squares. 235
Norzi, L.
Principio variazionale per la instabilità elastica. 927
Nosarzewska, M.
Banach's problem of infinite matrices. 7
Uniform convergence in some classes of functions. 855
Noto, S.
Equazioni differenziali del tipo (Q). 404
Novák, J.
Ordered continua of power $2^{\aleph_0}$. 146
Novikov, P. S. (Cf. Keldyš, L. V.)
*Uncontradictability and the descriptive theory of sets. 234
Algorithmic unsolvability of the problem of identity. 618
Novoa, L. Gutiérrez. See Gutiérrez Novoa.
Novobatzky, K. F.
Schrödinger-Gordon-Gleichung. 1046
Novodvorskiĭ, E. P.
Design of mechanisms. 916
Novotný, M.
Certains continus ordonnés. 146
Novozhilov, V. V.
*Foundations of the nonlinear theory of elasticity. 924
Novožilov, Yu. V.
Fok's method of functionals for characteristic energy. 228
Nowacki Witold.
Plaque en bande orthotrope. 600
Plaques rectangulaires. 601
Calcul des différences finies et mécanique de construction. 602

Nowacki, W., and Turski, S.
Fourier integrals and orthotropic plates. 1036
Nowiński, J.
Thin-walled beams with open cross-section. 1038
Nožička, F.
Hypersurface dans l'espace riemannien. 317
Theorem on the supremum. 456
Numakura, K.
Bicompact semigroups. 18
Nunke, R. J., and Savage, L. J.
Nonatomic, finitely additive, finite measure. 147
Nuttall, H.
Torsion of uniform rods. 517
N'yuten, I. See Newton, I.

Obi, C.
Non-linear differential equation. 982
Periodic solutions of non-linear differential equations. 1087
Obláth, R.
Problème de Goldbach. 356
Fermatsche Gleichung. 536
Unmögliche diophantische Gleichungen. 846
Obmoršev, A. N.
Graphical solution of characteristic equation. 691
Obreanu, F.
Zorn's theorem. 146
Obrechkoff, N.
Convergence des séries. 158
Descartes' theorem on imaginary roots. 164
Classes de fonctions réelles. 958
Classes de fonctions et suites. 958
Approximation diophantique linéaire. 1067
Egalités limites pour dérivées des fonctions et différences des suites. 1068
Fonctions réelles définies sur le demi axe réel. 1068
Racines des équations algébriques. 1082
Obrešков, N. See Obrechkoff.
O'Brien, S., and Synge, J. L.
Discontinuities in general relativity. 913
O'Brien, V. See Chang, Chieh-Chien.
Obukhoff, A. M., and Yaglom, A. M.
Microstructure of turbulent flow. 919
Oda, N. See Shôno, N.
Oestreicher, H. L.
Oscillating sphere in a viscoelastic medium. 337
Oettinger, A. G.
Programming a digital computer. 587
Ogawa, J.
Designs of weighing experiments. 191
Intraclass correlation coefficient. 389
Theory of systematic statistics. II. 390
Ogorodnikov, K. F.
Dynamics of the local system. 415
Ôhira, K.
Characterizations of abstract Euclidean spaces. 881
Ohmann, D.
Extremalprobleme für konvexe Bereiche. 76
Überdeckung durch konvexe Körper. 788
Inkreisradien bei Überdeckung. 788
Ungleichungssystem für Minkowskische Summe und Differenz. 1114
Ohnishi, M.
Linear-order on a group. 241
Ohtsuka, M.
Analytic function near an isolated boundary point. 36
Covering surface over an abstract Riemann surface. 36
Accessible boundary of a covering Riemann surface. 862
Oka, K.
Fonctions analytiques de plusieurs variables. VIII. 264
Okamoto, M.
Non-parametric test. 190
Tests of goodness of fit. I, II. 666
Okayama, T.
Generalization of statistics. 522
Ôkubo, H.
Torsion of spiral rods. 927
Olds, E. G.
Convolution of uniform distributions. 64
Oleĭnik, O. A.
Boundary problems for equations of elliptic type. 280
Equations of elliptic type with small parameter in the highest derivatives. I, II. 560
Oleĭnik, O. A., and Žižina, A. I.
Boundary problem for $\epsilon y'' = F(x, y, y')$ for small ϵ. 875
Olevskiĭ, M. N.
Taylor-Delsarte formula and mean value of a function on a sphere. 360
Riemann's function for $\partial^2 u/\partial x^2 - \partial^2 u/\partial t^2 + [\rho_1(x) + \rho_2(x)]u = 0$. 655
Oliveira, J. Tiago de. See Tiago de Oliveira.
Oliveri, E.
Moto piano di un punto. 916
Olkin, I. See Katz, L.
Ollendorff, F.
*Berechnung magnetischer Felder. 1043
Ollerenshaw, K.
Region defined by $|xy| \leqq 1$, $x^2 + y^2 \leqq t$. 624
Irreducible non-convex region. 850
Olsen, H.
Hankel transform. 43
Olsen, H., Werenskiold, P., and Wergeland, H.
Retardation of meson fields. 1047
Olsson, P. O.
Phase shifts in scattering problems. 278
Olsson, R. Gran. See Gran Olsson.
Olszak, W.
Torsion non-linéaire. 1038
Olum, P.
Mappings into spaces in which certain homotopy groups vanish. 895
Olver, F. W. J.
Asymptotic expansions for Bessel functions. 45
Zeros of high-degree polynomials. 209
Onat, E. T.
Torsion of prismatic rods of work-hardening material. 223
Onat, E. T., and Drucker, D. C.
Inelastic instability and theories of plasticity. 929
Onat, E. T., and Prager, W.
Limit analysis of arches. 702
Oniašvili, O. D.
Stability of a cylindrical shell. 112
Buckling of cylindrical shells. 112
Computation of sloping shells. 334
Vibrations of sloping cylindrical shell. 335
Vibrations and stability of a sloping shell. 925
Earthquake-proof sloping shells. 1036
Ono, A. See Sibagaki, W.
Ono, I. See Ozaki, S.
Ôno, Y.
Bopp-type non-local field. 117
Onoyama, T.
Random frequency process. 663
Representation of family of random variables. 886
Oppenheim, A.
Inequalities for quadratic forms. 954
Values of quadratic forms. I, II. 955
Oppenheim, U. See Many, A.
Orden, A.
*Solution of linear inequalities on digital computer. 1019

Ore, O.
Chinese remainder theorem. 20
Selection of subsequences. 256
*Cardano, the gambling scholar. 609
d'Orgeval, B.
Surface intersection de trois quadriques. 311
Orihara, M., and Tsuji, K.
Measures in non-separable topological spaces. 734
Orlicz, W. See Alexiewicz, A.
Orts, J. M.ª.
Integral formula for Legendre polynomials. 466
Ortusi, J., et Simon, J.-C.
Ondes dans les guides électromagnétiques. 519
Osborn, Richard K. (Cf. Berger, J. M.)
Spin-$\frac{1}{2}$ particles. 118
Osborn, Roger.
Null class. 835
Osborne, E. E.
Matrices having same characteristic equation. 6
Osima, M.
Symmetric algebras. 240
Representations of groups of finite order. 242
Character relations of symmetric groups. 243
Representations of a Frobenius algebra. 349
Induced characters of a group. 351
Cartan invariants of algebras. 530
Basic rings. I, II. 718, 941
Frobenius algebras. 841
Induced representations of a group. 845
Inverses in rings. 1056
Ossicini, A.
Prodotti di due polinomi ultrasferici. 468
Polinomi di Jacobi. 978
Ostapenko, V. N.
Electromodelling of filtration problems. 909
Osterbrock, D. E.
Stars in fluctuating density field. 591
Ostroumov, G. A.
*Free convection in cases of internal problems. 427
Ostrowski, A. M.
Régularité des matrices. 125
Greatest latent root of a positive matrix. 126
Rounding off of difference tables. 321
Bounds for determinants with dominant principal diagonal. 611
Fonctions convexes et concaves. 625
*Analogue of Theodorsen's and Garrick's method. 909
*Convergence of Theodorsen's and Garrick's method. 909
Oswatitsch, K.
*Gasdynamik. 814
Ōtsuki, T.
Spaces with normal projective connexions. 408
Systems of paths in plane. 874
Ott, K.
Zahlen- oder Grössengleichung? 114
Otter, R., and Dunne, J.
Games with equilibrium points. 891
Ottestad, P.
Analysis of variance of percentage fractions. 890
Oudart, A.
Couche limite dans l'impulsion brusque. 812
Overbeek, J. T. G. See van Est, W. T.
Overholtzer, G.
Elementary p-adic analysis. 21
Owens, O. G.
Homogeneous Dirichlet problem for inhomogeneous ultrahyperbolic equation. 178
Two-dimensional Finsler spaces. 500
Oyama, K. See Watanabe, S.

Ozaki, S.
Multivalent functions. II. 34
Multivalent functions in multiply connected domain. 35
Ozaki, S., and Ono, I.
Pseudo-meromorphic functions. 461
Ozaki, S., Kashiwagi, S., and Tsuboi, T.
Matrix space. 368
Function-theoretic identities of continuous mappings. I, II. 461
Ozaki, S., Ono, I., and Ozawa, M.
Function-theoretic identities in three-dimensional space. 38
Pseudo-meromorphic mappings. 461
Ozawa, M. (Cf. Komatu, Y.; Ozaki, S.)
Classification of Riemann surfaces. 462
Functions of bounded Dirichlet integral. 967

Paasche, I.
Beweis des Moessnerschen Satzes. 846
Paatero, V.
Konforme Abbildung mehrblättriger Gebiete. 861
Pachale, H.
Nichtlineares biharmonisches Randwertproblem. I, II. 274
Pack, D. C.
Unsteady motion of compressible fluid. 1032
Packham, B. A.
Symmetrical gravity waves of finite amplitude. II. 216
Padmavally, K.
Minimally bicompact spaces. 571
Pai, S. I.
Attached curved shock. 329
Paige, L. J. See Kelly, P. J.
Pailloux, H.
Mécanique rationnelle. 507
Équations de Lagrange. 507
Méthode d'approximation. 800
Calcul fonctionnel et mécanique rationnelle. 816
Pajares, E.
Bürgi. 609
Orbits of double stars. 801
Palamà, G.
"Neocribrum" di L. Poletti. 19
Somme di K^{me} potenze e multigrade. 20
Numeri primi e composti. 137
Distanza di due zeri consecutivi di $H_n(x)$. 468
Tarry-Escott problem. 1065
Palamà, G., e Poletti, L.
Tavola dei numeri primi. 846
Pleček, E. M.
Integration of equations of exterior ballistics. 325
Pan, T. K.
Normal curvature of a vector field. 406
Sufficient condition that two surfaces be applicable. 901
Paničkin, I. A.
Supersonic flow about an oscillating wing. 699
Panov, D. Yu.
*Handbook on the numerical solution of partial differential equations. 93
Numerical solution of partial differential equations. I, II. 210
Panovko, Ya. G.
Nonlinear problems of elastic vibrations. 1040
Pao, Yoh-Han; and Marin, J.
Creep deformation of materials. 929
Papapétrou, A.
Corpuscules en relativité restreinte. 806
Loi des moments dans un système. 807
Ondes gravifiques du corpuscule mono-bipolaire. 807
Corpuscules à constitution mono-bipolaire. 807
Papić, P.
Espaces admettant base ramifiée de voisinages. 1001
Espaces abstraits. 1106

Papin, M. Denis-. See Denis-Papin.
Papuš, P. N.
Regular semi-stable limit cycles. 472
Papy, G.
Sous-espaces des algèbres extérieures. 8
Paquet, H.
Couples de surfaces. 581
Parasyuk, O. S. See Melʹzler, D. G.
Parke, N. G., III. See Spencer, R. C.
Parker, E. N.
Heisenberg's model of turbulence. 920
Acoustical radiation from velocity field. 923
Parker, W. V., and Mitchell, B. E.
Elementary divisors of matrices. 125
Characteristic roots of matrices. 836
Matrices AB and BA. 939
Parkus, H.
Wärmespannungen in Rotationsschalen. 926
Parodi, M.
Théorème de Ostrowski. 126
Zéros de certains polynomes récurrents. 164
*Valeurs caractéristiques des matrices carrées. 236
Type d'équations intégrales. 562
Polynomes de Tchebicheff et matrices. 640
Résolution d'équations fonctionnelles. 761
Polynomes récurrents. 871
Equations intégrales fonctionnelles. 878
Parreau, M.
Fonctions harmoniques et analytiques et surfaces de Riemann. 263
Parrish, W., and Irwin, B. W.
*Data for X-ray analysis. Vol. I. 1125
Parrish, W., Ekstein, M. G., and Irwin, B. W.
*Data for X-ray analysis. Vol. II. 1125
Parthasarathy, M.
Integral functions. 966
Partington, J. R.
*An advanced treatise on physical chemistry. Vols. 1, 2, 3. 593
Pascal, M.
Obituary: R. Marcolongo. 344
Pastidès, N.
Equations fonctionnelles du type de Poincaré. 761
Pastori, M.
Ultima teoria di Einstein. I, II. 591, 1133
Calcolo tensoriale. 904
Pataraya, N. N.
Hydrodynamic interaction of spheres. 594
Pateman, J. E.
Sampling methods for analogue integrators. 909
Paterson, S.
Slowly convergent series. 369
Equation of heat conduction. 381
Propagation of a boundary of fusion. 476
Pati, T.
Summability of conjugate series of Fourier series. 553
Patterson, E. M.
Ricci-recurrent spaces. 88
Patterson, H. D.
Change-over trials. 67
Construction of balanced designs. 392
Pauc, C. Y. (Cf. Haupt, O.)
Théorèmes fort et faible de Vitali. 545
Paulson, E.
Comparison of experimental categories. 299
k-sample slippage problem. 569
Pavinskiĭ, P. P.
Electrostatic problem for the sphere. 644
Pavlov, P. P.
Sylow p-subgroups of full linear group. 533
Payne, L. E.
Axially symmetric flow and generalized electrostatics. I, II. 422
Payne, L. E., and Weinstein, A.
Capacity, virtual mass, and generalized symmetrization. 375
Payne, W. T.
Spinor theory of four-terminal networks. 1044
Pearce, S. C.
Designs of Latin square type. 300
Pearcey, T. See Beard, M.
Pearson, C. E.
Self-propagation of turbulent spots. 920
Peck, L. G.
Uniform distribution of algebraic numbers. 1066
Pecker, C. See Kourganoff, V.
Pedersen, F. P.
Spaces with negative curvature. 1015
Peierls, R. E.
Relativistic field theory. I, II. 520
Pell, W. H., and Prager, W.
*Limit design of plates. 930
Pennington, W. B.
Abel's method of summation. 159
Mahler's partition problem. 846
Pennisi, L. L.
Problem of Lagrange with differential inequalities. 661
Percival, W. S.
Passive electrical networks. 1044
Pereira Gomes, A. See Gomes, A.
Pereira, R. Crespo. See Crespo Pereira.
Peremans, W. (Cf. Duparc, H. J. A.)
Free algebras and direct products of algebras. 347
Peremans, W., Duparc, H. J. A., and Lekkerkerker, C. G.
Positive matrices. 125
Perfect, H.
Matrices with positive elements. II. 611
Perlis, S.
*Theory of matrices. 6
Permutti, R.
Equazioni algebriche a gruppo di Galois supersolubile. 8
Gruppi finiti. 13
Catene di taluni gruppi semplici. 618
Pernet, R.
Conjugaison et fibration dans algèbres normales. I, II. 840
Perret, E., Roth, E., Sänger, R., and Voellmy, H. R.
Flugbahnen von Leitstrahlraketen. 215
Perrin, F.
Geometry of spinors. 409
Perron, O.
Obituary: A. Pringsheim. 344
Moessnerscher Satz. 353
Verteilung der quadratischen Reste. 450
Formel von Ramanujan. 950
Persen, L. N.
Selbstadjungierte Differentialgleichungen. 171
Persidskiĭ, K.
Denumerable systems of differential equations. 47
Estimate for characteristic values. 47
System of partial differential equations. 172
Stability of solutions of differential equations. 753
Critical cases of denumerable systems. 753
Péter, R.
Höhere Stufen von rekursiven Funktionen. 713
Petersen, G. M.
Divergent series. 368
Peterson, Raymond P.
Constant risk estimates. 298
Constant risk minimax point estimates. 298
Petersen, Richard.
*Laplace-transformation of almost periodic functions. 746

Petersen, R., and Skovgaard, H.
Equiconvergence theorem for Laguerre series. 976
Petiau, G.
Diffusion des corpuscules de spin $\hbar/2$. 1047
Corpuscules à spin dans les potentiels constants. 1047
Petkantschin, B.
Zentralkurve einer Regelschar mit isotroper Richtebene. 1015
Isometrie zwischen zwei Regelflächen mit isotropen Richtebenen. 1015
Isotropen Regelscharen im elliptischen Raum. 1120
Petracca, A., and Levi, B.
Polydromic function. I, II. 546, 857
Petresco, J.
Théorie relative des chaines. II, III, IV. 346, 612, 940
Petrescu, St.
Two-dimensional spaces with affine connection. 1123
Petričević, F.
Lösung des Apollonischen Problems. 307
Petrov, A. A.
Hypothesis concerning normality of distributions. 488
Petrov, A. Z.
*Gravitational fields. 1016
Petrov, G.
Construction of a triangle. 574
Petrovskij, I. G.
*Theorie der Integralgleichungen. 761
Peyerimhoff, A. (Cf. Gaier, D.; Jurkat, W.)
Konvergenzfaktoren beim Limitierungsverfahren. 265
Absolute Cesàrosche Summierbarkeit. 551
Absolute Summierbarkeit. 865
Peyovitch, T.
Équations biologiques. 780
Formule $\int_a^x dx \int_a^x dx \cdots \int_a^x f(x)dx = [(n-1)!]^{-1} \int_a^x (t-x)^{n-1} f(x)dx$. 959
Peyturaux, R. See Mineur, H.
Pfeiffer, P. E.
Totally finite measures on finite product spaces. 963
Pflanz, E.
Langsam konvergente unendliche Reihen. 321
Pflüger, A.
Plastische Knickung gerader Stäbe. 931
Pham, Man Quan.
Thermodynamique d'un fluide relativiste. 1134
Fluide parfait thermodynamique. 1135
Phillips, F. M. See Moullin, E. B.
Phillips, N. A. See Charney, J. G.
Phillips, R. S.
Semigroups of linear operators. 383
Perturbation theory for linear operators. 882
Linear ordinary differential operators. 1088
Phythian, J. E.
Unsteady motions of a slender body. 426
Energy distribution behind decaying shock. 511
Piazzolla Beloch, M.
*Geometria descrittiva. 785
Pi Calleja, P.
Concept of the integral. VI, VIII. 28, 735
Concept of physical magnitude. 1042
Pickert, G.
Zwischenkörperverbände endlicher inseparabler Erweiterungen. 239
Satz vom vollständigen Viereck. 399
Bemerkungen über Galois-Verbindungen. 529
Direkte Zerlegungen von algebraischen Strukturen. 718
Nichtkommutative cartesische Gruppen. 721
Picone, M.
Vedute generali sull'interpolazione. 144
Criterio di convergenza uniforme. 148
Points de vue généraux sur l'interpolation. 732
Polinomi di Legendre. 978
Picone, M. (Continued)
*Opera matematica dell'Istituto Nazionale per le Applicazioni del Calcolo. 1050
Allgemeine Gesichtspunkte zur Interpolation. 1067
Picone, M., e Viola, T.
*Lezioni sulla teoria moderna dell'integrazione. 256
Pidduck, F. B.
Integral representations of an analytic function. 458
Pierson, W. J., Jr.
*Propagation of waves from a model fetch at sea. 918
Pieruschka, E.
Stoffgesetzansatz für elastische, anisotrope Medien. 514
Pignedoli, A.
Dinamica relativistica del punto materiale. 98
Aspetto analitico di due problemi della fisica. 655
Moti tautocroni del punto materiale veloce. 915
Considerazioni su Leonardo da Vinci. 1051
Pikus, D. L.
Isoperimetric problem in Lobačevskiĭ plane. 679
Pilatovskiĭ, V. P.
Filtration of an elastic fluid. 1139
Pillai, K. C. S.
Ordered samples. 569
Pilowski, K.
Sphärische Astronomie. 1131
Pini, B.
Problema di Dirichlet. 175
Equazione a derivate parziali lineare parabolica. 475
Sistemi ai differenziali totali. 1088
Pinl, M.
Isotrope Vektoren im erweiterten Hermiteschen Raum. 611
Pinney, E. See Klotter, K.
Piotrowski, S. L.
Least-squares solution of non-linear equations. 1127
Pipes, C. J.
Theorem of Sierpinski and Zygmund on continuous functions. 29
Pipping, N.
Drei geometrische Miniaturen. 494
Verallgemeinerungen des Euklidischen Algorithmus. 836
Pirani, F. A. E., Schild, A., and Skinner, R.
Quantization of Einstein's gravitational field equations. II. 418
Piranian, G. (Cf. Cowling, V. F.; Lohwater, A. J.; Herzog, F.)
Uniformly accessible Jordan curves. 262
Piranian, G., Titus, C. J., and Young, G. S.
Conformal mappings and Peano curves. 262
Pirenne, J.
Covariant theory of radiation damping. 118
Pismanik, K. M.
Momentary axis of worm gears. 420
Hyperboloidal toothed gears. 916
Pisot, C. See Dufresnoy, J.
Pissard, Legrain-. See Legrain-Pissard.
Pistolesi, E.
Metodi dell'aerodinamica supersonica. 922
Portanza in corrente supersonica. 1033
Pivovarov, A. M.
Torsion of prismatic rods. 1038
Pizzetti, E.
Dalle proporzioni continue alle progressioni. 455
Plainevaux, J. E.
Equations différentielles linéaires. 983
Plans Sanz de Bremond, A.
Invariants of quadratic forms. 717
Linear properties of bounded matrices. 768
Dimensional approximation in Kuratowski space. 893
Plantema, F. J., and van Alphen, W. J.
*Buckling of sandwich plates. 1038

Plass, G. N., and Fivel, D. I.
Atmospheric radiation transfer. 804
Platzman, G. W.
High-speed computers in meteorology. 504
Pleijel, Åke.
Obituary: J. Malmquist. 524
Valeurs et fonctions propres des membranes vibrantes. 561
Theorem of Carleman. 977
Obituary: N. E. Fremberg. 1050
du Plessis, N.
Fractional integrals. 546
Plotkin, B. I.
Solvable groups without torsion. 15
Plûme, Z.
Neumann's boundary problem. 644
Plunkett, R.
Convergence of relaxation methods. 1020
Pogorelov, A. V.
Boundary problem for $rt - s^2 = \varphi(x, y)$. 203
*Deformation of convex surfaces. 400
Quasi-geodesic lines on a convex surface. 401
Unique determination of infinite convex surfaces. 577
Regularity of a convex surface. 679
Extrinsic curvature of smooth surfaces. 1015
Pogorzelski, W.
Equation intégrale dans le problème de Fourier. 180
Equation intégro-différentielle non linéaire. 181
Problème mixte concernant l'équation des télégraphistes. 987
Noyau singulier fermé. 988
Pohlack, H.
Umkehrbarkeit der Lichtwege. 822
Pohle, F. V. (Cf. Dressler, R. F.; Kempner, J.)
*Motion of water due to breaking of a dam. 811
Pohlhausen, K. See Millsaps, K.
Poincaré, H.
*Science and method. 344
*Science and hypothesis. 344
Poincelot, P.
Notion de vitesse de groupe. 114
Poirier, R.
*Logique et modalité du point de vue organique et physique. 527
Polachek, H. See Ludford, G.
Poletti, L. (Cf. Palamà, G.)
Tavola dei numeri primi. 121
Poli, L.
Intégrales et calcul symbolique. 43
Calcul symbolique et équations aux dérivées partielles. 870
Polievktov-Nikoladze, N. M.
Relativistic equations for particles with spin $\frac{1}{2}$. 340
Pollaczek, F.
Périodes d'occupation ininterrompue d'un guichet. 188
Intégrale d'Hadamard et équations différentielles linéaires. 556
Théorie des attentes. 772
Systèmes téléphoniques sans dispositif d'attente. 773
Pollard, H. See Chung, Kai Lai.
Položiĭ, G. N.
Plane theory of elasticity. I, II. 333, 334
Boundary points of mapped regions. 549
Polozkov, D. P.
Interpretations of plane geometry of Lobačevskiĭ. 575
Pol'skiĭ, N. I.
Generalizations of Galerkin's method. 384
Polubarinova-Kočina, P. Ya.
Correspondence of S. V. Kovalevskaya. 122
Polvani, G.
Fondamenti della metrologia fisica. 821
Pólya, G.
Calcul de certaines grandeurs physiques. 626
Méthode des différences finies. 656
Polyahov, N. N.
Flow about a grid. 327
Pressure distribution on surface of a profile. 1028
Pompili, E.
Probabilità di fallimento nelle imprese di assicurazione. 568
Pompilj, G.
Osservazioni sull'omogamia. 63
Media e varianza di un campione. 293
Pond, H. L.
Body of revolution moving under a free surface. 326
Rankine ovoid moving under a free surface. 326
Ponting, F. W.
Location of singularities. 1074
Pontrayagin, L. S.
*Foundations of combinatorial topology. 194
Mappings of an $(n+1)$-dimensional sphere. 397
Popadić, M. S.
Chains in ordered finite sets. 528
Characteristic property of finite sets. 733
Popken, J. (Cf. Mahler, K.)
Linear differential-difference equations. 285
In memoriam: J. A. Barrau. 1050
Poplawsky, R. P. See Symon, K. R.
Popoff, K.
*Mouvement d'un projectile autour de son centre de gravité. 101
Thermodynamique des processus irréversibles. 1047
Popov, B. S.
Derivatives of orthogonal polynomials. 641
Equation de Riccati. 648
Factorization of an operator. 648
Equation différentielle. 983
Popov, K. A. See Popoff, K.
Popov, S. G.
Integrals of Bernoulli and Lagrange. 507
Popova, H.
Quasi-groupes dont les logarithmétiques sont groupes. 131
Vecteurs dérivés des quasi-groupes unis. 444
Logarithmétiques de quasi-groupes. I, II. 615, 841
Logarithmétique d'une boucle. 842
Popović, Božidar.
Equations of perturbation in planetary motion. 96
Popovici, A.
*Equations unitaires de la gravitation et de l'électromagnétisme. 1133
Poritsky, H.
*Industrial applications of conformal mapping. 549
Gyroscopic motion. 918
*Spherical bubble in viscous fluid. 1030
Pöschl, K.
Maximalbetrages der Lösungen linearer Differentialgleichungen. 873
Pöschl, T.
Equazione di Darboux-Riccati e curve a curvatura doppia. 84
Beispiele aus der Mechanik. 215
Hauptschwingungen mit endlichen Schwingweiten. 324
de Possel, R., et Valensi, J.
Sillage d'une plaque perméable. 1031
Postnikov, A. G. (Cf. Korobov, N. M.)
Fractional parts of the exponential function. 359
Potts, R. B. See Messel, H.
Potugina, I. V.
Coefficients of odd univalent functions. 260
Potyagallo, D. B.
Boundary values of meromorphic functions. 549
Povzner, A. Ya.
M. G. Krein's method of directing functionals. 385
Cauchy's problem. 474
Characteristic functions of $-\Delta u + cu$. 755
Power, G.
Forces on boundary of dielectric. 934

Prachar, K.
Verallgemeinerung eines Satzes von Hardy und Ramanujan. 357
Additive Zahlentheorie. 451
Sum $\sum_{p \leq x^{\omega}} (f(p))$. 726
Primzahldifferenzen. I, II. 727
Höhere zahlengeometrische Minima. 1066
Pradillo, J. García. See García Pradillo.
Prager, W. See Drucker, D. C.; Onat, E. T.; Pell, W. H.
Prager, W., and Hodge, P. G., Jr.
*Theory of perfectly plastic solids. 430
Prakash, Prem. See Prem Prakash.
Prasad, B. N., and Singh, U. N.
Summability of derived Fourier series and its conjugate series. 370
Pregnolato, G. T.
Media integrale e integrale di Lebesgue. 964
Prékopa, A.
Composed Poisson distributions. IV. 993
*Problème du calcul des probabilités. 1098
Prem Prakash
Steady flow superposable on constant velocity. 1029
Prentis, J. M.
Compression of cube between rigid rough plates. 111
Press, F. See Jardetzky, W. S.
Preston, G. W.
Prediction of nonstationary stochastic processes. 667
Prigogine, I. See Gillis, P. P.; Klein, G.
Prim, R. C., 3rd.
Steady rotational flow of ideal gases. 107
Probstein, R. F.
Rotating plate started from rest. 1031
Proca, A.
Espace-temps des particules fondamentales et espaces spinoriels. 118
Procissi, A.
Opere di Archimede. 832
Inviluppo delle parabole in Torricelli. 833
"Ragionamenti d'algebra" di R. Canacci. 1050
Prodi, G.
Equazioni alle derivate parziali di tipo parabolico. 1089
Prohorov, Yu. V.
Local theorem for densities. 186
Refinements of Lyapunov's theorem. 187
Prokopov, V. K.
Plane problem of elasticity theory. 221
Bending of rectangular strip. 925
Prosciutto, A.
Schiere di pale generate mediante trasformazioni conformi. 216
Proskuryakov, I. V.
Dimension of topological spaces. 303
Protter, M. H.
Boundary value problem for equation of mixed type. 281
Uniqueness theorems for the Tricomi problem. 654
Proudman, I.
Generation of noise by turbulence. 596
Prudnikov, V. E.
First Russian arithmetician and geometer. 833
Pryce, M. H. L.
Diffraction of radio waves. 703
Pták, V.
Theorem of Ward. 457
Partially ordered linear spaces. 482
Ptolemy.
*The almagest. 833
Pu, P. M.
Nonorientable Riemannian manifolds. 87
Pucci, C.
Continuità dei funzionali analitici. 58
Equazione differenziale del secondo ordine. 378
Bounds for solutions of Laplace's equation. 980
Pucci, C. (Continued)
Problema al contorno di tipo misto. 986
*Maggiorazione degli integrali di equazioni differenziali. 1090
Puig Adam, P.
Continued fractions of differential elements. 626
Torres Quevedo. 1051
Pukánszky, L., and Rényi, A.
Approximation of measurable functions. 29
Puppe, S. D.
Minkowskische Einheiten und Verschlingungsinvarianten von Knoten. 490
Purcell, E. J.
Noninvolutorial Cremona transformations. 401
Cremona involutions. 680
Purchvanidze, A. V.
Ratio of areas of elliptic sector and triangle. 411
Putnam, C. R.
Unboundedness of the essential spectrum. 472
Hilbert-space correspondences in quantum mechanics. 659
Putnam, C. R., and Wintner, A.
Addition of symmetric normal frequency curves. 485
Pyateckiĭ, I. I. Šapiro-. See Šapiro-Pyateckiĭ.
Pylarinos, O.
Surfaces réglées W. 1121

Quade, W.
Positive Matrizen. 1055
Queiroz, A.
Theorem of Pappus. 195
Queney, P.
Résonance interne du jet-stream. 1034
Quenouille, M. H.
*Associated measurements. 568
Quensel, C.-E.
Second order movements in random samples. 486
Quick, A. W., und Schröder, K.
Laminare Grenzschicht bei schwankendem Druckverlauf. 217
Quine, W. V. (Cf. Bridgman, P. W.; Church, A.; Craig, W.)
Simplifying truth functions. 440
Qvist, B. (Cf. Kustaanheimo, P.)
Curves in a finite plane. 1008

Raabe, A. See Weyssenhoff, J.
Rabinovič, Yu. L.
Spectrum of symmetric linear integral operator. 289
Rachajsky, B. See Rašajski, B.
Radek, H.
Problem verketteter Wahrscheinlichkeiten. 62
Radhakrishna, Rao C. See Rao, C. Radhakrishna.
Radice, L. Lombardo-. See Lombardo-Radice, L.
Rado, R.
Sequences of convex sets. 309
Radó, T. (Cf. Minagawa, T.)
Teoria delle omologie singolari. 74
General cohomology theory. 784
Radó, T., and Reichelderfer, P. V.
Generalized Lipschitzian transformations. 30
Radojčić, M.
Singularités essentielles de fonctions automorphes. 367
Radok, J. R. M.
Aerofoils in unsteady motion. 104
Aero-elasticity of aircraft. 602
Rådström, H.
Convexity and norm in topological groups. 534
Raduán, F. Botella. See Botella Raduán.
Radziszewski, C.
Figures inscrites dans les figures convexes. 896
Raffin, R.
Anneau des classes résiduelles modulo n. 1056

Ragab, F. M.
Integrals involving Bessel functions and *E*-functions. I, II. 468
Raher, W.
Stabilitätsbedingung für krumme Stäbe. 601
Rahmanov, B. N.
Univalent functions. 740
Rahmatulin, H. A.
Impact on a flexible cord. 112, 820
Rai, T.
Additive theory of numbers. II, IV. 138, 726
Raiffa, H.
*Arbitration schemes for two-person games. 667
Rainville, E. D.
Heat conduction problem and product of error functions. 758
Bessel and related polynomials. 872
Raj, Des. See Des Raj.
Rajagopal, C. T.
One-sided Tauberian theorems. I, II, III. 160, 958
Tauberian theorems of O. Szász.
Convergenza delle serie a termini positivi. 633
Generalization of Tauber's theorem. 958
Limitation theorems and high-indices theorems. 973
Rajagopal, C. T., and Vedamurti Aiyar, T. V.
Hindu approximation to pi. 121
Raja Rao, S. See Rao.
Rajčić, L.
Géométrie d'espace de Lobatchevsky. 675
Raje, S. A.
Linear meson wave equation in de Sitter space. 435
Raljević, S.
Zéros d'un polynome du troisième ordre. 268
Droite et segment d'Euler. 1007
Ramakrishna, B. S. See Lakshmana Rao, S. K.; Thiruvenkatachar, V. R.
Ramakrishnan, Alladi. (Cf. Bhabha, H. J.)
Stochastic processes for particles in a continuous infinity of states. 296
Janossy's model of nucleon cascade. 388
Random divisions of a line. 1100
Ramanathan, K. G.
Abelian quadratic forms. 252
Units of quadratic forms. 453
Ramaswami, V.
Theorem of Gelfand and Hille. 384
Ramsayer, K.
Kleinfunktionsrechenmaschine. 1021
Raney, G. N.
Completely distributive complete lattices. 612
Rangasami, Kumandur Srinivasa Iyengar. See Nigam, Swami Dayal.
Rangaswami Aiyer, K.
Differential geometry of the cylindroid. 404
Joachimstal's circles of a conic. 494
System of circles. 785
Rankin, R. A.
Scalar product of modular forms. 139
Anomaly of convex bodies. 624
Three-dimensional convex bodies. 678
Product of differences of n real variables. 852
Positive definite quadratic forms. 1065
Rao, B. S. Madhava. See Madhava Rao.
Rao, C. Radhakrishna. (Cf. Kishen, K.)
*Advanced statistical methods in biometric research. 388
Series of short length. III. 391
Minimum variance estimation. I, II. 1103
Rao, C. V. Joga. See Joga Rao.
Rao, K. S.
Deriving best critical regions. 1104
Rao, P. Sambasiva. See Sambasiva Rao, P.
Rao, P. Venkata. See Venkata Rao, P.
Rao, S. K. Lakshmana. See Lakshmana Rao.
Rao, S. Raja, and Som, Ranjan K.
Series of short length. II. 391
Rapoport, A. (Cf. Landau, H. G.)
Response time and threshold of a random net. 570
Rapoport, A., and Rebhun, L. I.
Theory of rumor spread. 570
Rapoport, I. M.
Approximate integration of differential equations. 323
Rašajski, B.
Équations aux derivées partielles du 1er ordre. 172
Théorie géométrique des caractéristiques. 379
Théorie géométrique des caractéristiques. 651
Raševskiĭ, P. K.
Solution of boundary problems by methods of non-commutative algebra. 649
Geometry of homogeneous spaces. 795
Rashevsky, N.
Mathematical biology of division of labor. 393
Imitative behavior in populations. 780
Mathematical approach to history. 1000
Rasiowa, H.
Compactness theorem for arithmetical classes. 938
Rasulov, M. L.
Mixed problems for differential equations. 50
Rauch, H. E.
Differential geometry in the large. 1015
Rauch, S. E.
Cycloidal motion of electrons. 1044
Raychaudhuri, Amalkumar.
Expanding cosmologic models. 416
Radiation sphere in Einstein universe. 592
Concentrations of matter and Schwarzschild singularity. 914
Raymond, F.-H.
Asservissement linéaire multiple. 171
Analogies électriques et mécaniques. 323
Rayski, J.
Divergence problem of quantized fields. 228
Non-local fields. 228
Non-local quantum electrodynamics. I, II. 229, 705
Field theories with non-localized interaction. 229
Interaction of fields and self-energy problem. 229
Nonlinear effects in field theory. I. 229
Invariant formulation of quantum field theory. 229
Regular field theory. 705
Rayski, J., and Rzewuski, J.
Fields free of divergences of mass-renormalization type. 229
Rayski, J., and Średniawa, B.
Nonlinear effects in theory of quantized fields. II. 229
Read, A. H.
Functional equation. 286
Real, L. Neves. See Neves Real.
Rebhun, L. I. See Rapoport, A.
Rédei, L. (Cf. Szép, J.)
Schiefes Produkt in der Gruppentheorie. 13
Faktorisierbare Gruppen. I. 13
Vollidealringe. 127
Ringkonstruktionen durch schiefes Produkt. 443
Schreiersche Erweiterungstheorie. 614
Waringsche Formel. 836
Determinantenteiler. 940
Vollidealringe im weiteren Sinn. I. 941
Rédei, L., und Steinfeld, O.
Ringe mit gemeinsamer multiplikativer Halbgruppe. 10
Rédei, L., and Szép J.
Finite nilpotent groups. 1059
Redheffer, R. M. (Cf. Steinberg, R.)
Power series and algebraic numbers. 541
Poisson law. 1098

Reeb, G.
Mouvements périodiques de certains systèmes dynamiques. 170
Variétés symplectiques, variétés presque-complexes et systèmes dynamiques. 584
Trajectoires de la dynamique. 584
Géodésiques d'un espace de Finsler et variétés minima d'un espace de Cartan. 584
*Stabilité et unicité des solutions de $X(x,y)\,dx + Y(x,y)\,dy = 0$. 876
*Propriétés topologiques des variétés feuilletées. 1113
Rees, M. See Courant, R.
Regenstreif, E.
Len'ille électrostatique elliptique. 517
Régnier, A., Schatzman, E., et Vigier, J.-P. 117
Mouvements des particules en mécanique quantique. 117
Reich, E.
Definition of information. 568
Reich, E., and Swerling, P.
Detection of sine wave in noise. 890
Reichelderfer, P. V. See Radó, T.
Reidemeister, K.
Logik der Lehre vom Raum. 835
Reifenberg, E. R.
Parametric surfaces. I, II, III, IV. 363, 629
Finite sets of plane continua. 1109
Reiner, I. See Hua, L. K.
Reiner, M. See Braun, I.
dos Reis, M.
Distribution of prime numbers. 137
Reiss, H.
Irreversible condensation. I. 711
Reissig, R.
Pandiagonale Quadrate vierter Ordnung. 725
Reissner, E. (Cf. Clark, R. A.)
Integral aus der Theorie der elastischen Schwingungen. 271
Torsion of cylindrical rods. 335
Bending and twisting of plates. 429
Finite bending of circular ring plates. 429
*Theory of oscillating airfoils. 1029
Reiter, H. J.
Harmonic analysis. 465
Reiter, S. See Koopmans, T. C.
Rellich, F.
*Nichtlineare Differentialgleichungen. 49
Remak, R.
Diskriminante und Regulator eines algebraischen Zahlkörpers. 952
Rembs, E.
Integralformeln der Verbiegungstheorie. 203
Verbiegung von Flächen im Grossen. 901
Remez, E. Ya.
Mathematical manuscripts of Ostrogradskiĭ. 525
Renggli, H.
Representation conforme. 462
Ren'i, A. See Rényi, A.
Rényi, A. (Cf. Pukánszky, L.)
Central limit theorem of probability. 60
New results in probability theory. 121
Projections of probability distributions. 771
Théorème général de probabilité. 886
Conjecture of H. Steinhaus. I, II. 1071
*Stochastical independence and complete systems of functions. 1071
Foundations of probability theory. 1098
Rényi, A., and Turán, P.
Zeros of polynomials. 1082
Resch, D.
Temperature bounds on the infinite rod. 173
Rešetov, M. R.
System of differential equations, the linear parts of which have triangular form. 48
Denumerable system of differential equations. 753
Reuter, G. E. H., and Ledermann, W.
Differential equations for transition probabilities. 757
Reynolds, R. L. See Brauer, A.
de Rham, G.
Théorème de Stieltjes relatif à matrices. 236
Réductibilité d'un espace de Riemann. 584
Ribeiro de Albuquerque, J.
Ensembles projectifs. 146
Théorème sur les ensembles criblés. 147
Ribner, H. S.
Convection of vorticity through a shock wave. 922
Ribner, H. S., and Arnoff, E. L.
Interaction between supersonic and parallel subsonic stream. 921
Ricci, G.
Funzioni arithmetiche. 536
Differenza di numeri primi consecutivi. 727
Riccio, M. T.
Varietà W_3^5 dell'S_7 riemanniana. 402
Sistema ∞^6 di V_3^3 di S_8. 402
Rice, H. G.
Recursively enumerable sets and decision problems. 713
Richard, U.
Equazioni differenziali lineari del 2^o ordine. 274
Richardson, J. M. See MacDonald, W. M., III.
Richert, H.-E.
Anzahl Abelscher Gruppen gegebener Ordnung. I, II. 349, 945
Gitterpunktproblem. 956
Richter, H.
Grundlegung der Wahrscheinlichkeitstheorie. I. 484
Elastizitätstheorie endlicher Verformungen. 514
Richter, W.
Graphische Lösung von Differentialgleichungen. 323
Rickart, C. E.
Representation of Banach algebras. 385
Spectral permanence for Banach algebras. 660
Rickayzen, G., and Kurşunoğlu, B.
Unified field theory and Born-Infeld electrodynamics. 591
Ridder, J.
Modale Aussagenlogiken und Strukturen. I, II, III. 527, 1052
Rideout, V. C. See Chang, Han.
Rieger, L.
Automorphisms of Boolean algebras. 238
Marxist conception of mathematics. 345
Countable generalised σ-algebras. 347
Free $\aleph_1$-complete Boolean algebras. 347
Riekstyn'š, Ē. Ya.
Generalized system of telegraph equations. 51
Riemann, B.
*Gesammelte mathematische Werke. 610
Riesz, F.
Représentation des opérations fonctionnelles linéaires par des intégrales de Stieltjes. 479
*Ensembles de mesure nulle et leur rôle dans l'analyse. 1071
Riesz, F., et Sz.-Nagy, B.
*Leçons d'analyse fonctionnelle. 286
Riesz, M.
Potentiel de Liénard-Wiechert. 98
Potentiel retardé attaché à un courant continu. 98
Propriétés principales de mesure de Lebesgue. 1071
Riguet, J.
Matrices de Stirling. 1055
Rijkoort, P. J.
Wilcoxon's test. 391
Rijkoort, P. J., and Wise, M. E.
Two ranking tests. 1104

Rikitake, T.
Analyses of geomagnetic field. 934
Riordan, John.
Delay curves for calls served at random. 664
Riordan, John F. See Scherberg, M. G.
Rios, S.
*Introduction to the methods of statistics. I. 568
Operational research. 667
Some probability laws and stochastic processes. I, II. 993, 1101
Rios de Souza, J. E.
Pohlke's theorem. 308
Ripelle, M. Fabre de la. See Fabre de la Ripelle.
Risco, M.
Interprétation d'un phénomène interférentiel. 506
Riss, J.
Groupes abéliens localement compacts. 949
Ritter, R.
Biegungsgleichung spezieller Flächen. 686
Rivier, W.
Jeux de combinaison et théorème d'Euwe. 234
Equation à coefficients entiers. 1063
Rivlin, R. S. (Cf. Adkins, J. E.)
Second order elasticity theory. 513
Riz, P. M.
Solution of the wave equation. 52
Robbins, H.
Sequential design of experiments. 300
Gambling systems and birth statistics. 485
Roberson, R. E.
Nonlinear dynamic vibration absorber. 171
Martiensson and Duffing methods for nonlinear vibrations. 558
Nonlinear vibrations. 1130
Roberts, G. T.
Topologies in vector lattices. 395
Bounded-weak topologies and completeness in vector spaces. 766
Roberts, R. C. See Diaz, J. B.
Roberts, T. E., Jr.
Single-wire transmission line. 605
Robertson, M. S.
Functions regular in an annulus. 460
Robinson, A.
Swallow tail wings. 219
Non-uniform supersonic flow. 511
Flat delta wing at supersonic speeds. 699
Robinson, A., and Hunter-Tod, J. H.
Vortices in linearised supersonic flow. 219
Robinson, A. A.
Manchester University high-speed digital computor. 504
Robinson, G. de B.
Conjecture by J. H. Chung. 243
Modular representations of the symmetric group. II, III. 243, 244
Robinson, J.
Existential definability in arithmetic. 4
Robinson, K.
Ellipsoidal inclusion in infinite solid. 111
Rocco Boselli, A.
Algebre complesse d'ordine 5. 346
Rochester, N. See Astrahan, M. M.
Rodeja F., E. G.-
Sum of powers of sines, cosines and tangents. 745
Rodnikova, I. V. See Kel'man, V. M.
Rodosskiĭ, K. A. (Cf. Čudakov, N. G.)
Zeros of all L-functions with characters of given modulus. 249
Theory of the ζ-function. 451
Estimates of $L(1, \chi)$. 728
Rodríguez-Salinas, B.
Region of values of a schlicht function. 460
Formulas of Taylor, Darboux and Euler-Maclaurin. 732
Rodríguez-Salinas, B. (Continued)
Reiterated application of a sequence of functions. 736
Asymptotic developments of Laplace integrals. 977
Rodríguez Vidal, R.
Pfaffians and convex bodies. 1115
Roesser, E.
Polyhedra in the spaces of constant curvature. 674
Rogačenko, V. F.
Construction in the Lobačevskiĭ plane. 1007
Rogers, C. A. (Cf. Erdös, P.)
Indefinite quadratic forms in n variables. 143
Reduction of star sets. 253
Lattice points in a star body. 624
Integrals over convex sets. 965
Roglić, V.
Condition de Saint-Venant en electrodynamique. 604
Rogosinski, W. W.
*Volume and integral. 964
Rogožin, V. S. See Krasnovidova, I. S.
Rohlin, V. A.
A three-dimensional manifold is the boundary of a four-dimensional one. 72
Pontryagin's characteristic cycles. 306
Four-dimensional manifolds. 573
Rohrbach, H.
Axiomensystem für die Menge der natürlichen Zahlen. 714
Rohrbach, H., und Volkmann, B.
Konvergenz von Mengenfolgen. 255
Röhrl, H.
Fabersche Entwicklungen auf Riemannschen Flächen. 154
Funktionenklassen auf geschlossenen Riemannschen Flächen. 462
Verallgemeinerungen der Abelschen Integrale. 1076
Rollett, A. P. See Cundy, H. M.
Ronchi, L., et Toraldo di Francia, G.
Coefficients de réflexion. 518
Room, T. G.
Groupoid of involutory matrices. 496
Composition of rotations. 675
Synthesis of the Clifford matrices. 837
Rooney, P. G.
Laplace transformation. 554
van Rootselaar, B.
Problème de Dijkman. 441
Roquette, P.
Arithmetische Untersuchung eines Abelschen Funktionenkörpers. 622
Automorphismengruppe eines algebraischen Funktionenkörpers. 622
Charakterring einer endlichen Gruppe. 844
Riemannsche Vermutung in Funktionenkörpern. 848
Roşca, R. M.
Congruences doublement cycliques. 84
Rose, A.
Calcul des prédicats du premier ordre. 3
Theorems of Schmidt and McKinsey. I. 3
Generalized Sheffer functions. 3
Calculus of non-contradiction. 123
Post's m-valued propositional calculus. 233
$\aleph_0$-valued Łukasiewicz propositional calculus. 834
Calcul propositionnel implicatif à trois valeurs. 834
Connective for the erweiterter Aussagenkalkül. 936
$\aleph_0$-valued propositional calculus. 1052
Rose, I. H.
Cohomology theory for associative algebras. 130
Roseau, M.
Ondes liquides de gravité en profondeur variable. I, II 215
Ondes dans un canal de profondeur variable. 215
Rosen, N.
Electron and electromagnetic field. 437

Rosenberg, A. (Cf. McLaughlin, J. E.)
Subrings of simple rings with minimal ideals. 127
Rosenberg, R. M. See Golomb, M.
Rosenberry, L. P. See MacDonald, W. M., III.
Rosenblatt, B. R. See Bejarano, G. G.
Rosenblatt, M. (Cf. Brownlee, K. A.; Grenander, U.; Hodges, J. L., Jr.)
Multivariate transformation. 189
Limit theorems associated with the von Mises statistic. 665
Rosenbloom, P. C.
Fix-points of entire functions. 546
*Difference equation method for Dirichlet problem. 800
Rosenlicht, M.
Equivalence relations on algebraic curves. 80
Algebraic function fields of one variable. 1012
Rosenthal, F. See Sternberg, E.
Rosina, B. A.
Coniche generalizzate. 680
Rosser, J. B.
Axiom of infinity in Quine's New Foundations. 440
*Logic for mathematicians. 935
Computing exact inverses of matrices. 1128
Rosser, J. B., and Turquette, A. R.
*Many-valued logics. 526
Rosser, J. B., Lanczos, C., Hestenes, M. R., and Karush, W.
Separation of eigenvalues of a matrix. 92
Rostand, F.
Psychologie des mathématiques. 528
Rostovcev, N. A.
Plane contact problem. 1146
Roth, E. See Perret, E.
Roth, K. F. (Cf. Bambah, R. P.)
Certain sets of integers. 536
Roth, L.
Properties of Grassmannians. 78
Alcune V_8 irrazionali a generi nulli. 79
V_8 algebriche. 311
Hyperelliptic threefolds. 1117
Threefolds of linear genus unity. 1117
Rothberger, F.
Property C and a problem of Hausdorff. 544
Rothe, E. H.
Leray-Schauder index in Hilbert space. 185
Gradient mappings. 657
Rouquet la Garrigue, V.
Etude qualitative des équations différentielles. 169
Rouse, H., and Hsu, Hsieh-ching.
*Growth and decay of a vortex filament. 1030
Roussel, A.
Généralisation des développements de Taylor. 37
Routledge, N. A.
Ordinal recursion. 714
Roux, D.
Serie di potenze sugli archi di regolarità. 738
Roy, L.
Expansion de l'Univers. 806
Roy, Purnendu Mohon.
Balanced incomplete block designs. 610
Roy, René.
Élasticités de la demande. 891
Roy, S. N.
Bayes solutions in Neyman-Pearson set-up. 190
Useful results in Jacobians. 959
Royden, H. L. (Cf. Ahlfors, L. V.; Garabedian, P. R.)
Boundary points in potential theory. 45
Harmonic functions on open Riemann surfaces. 167
Neumann-Poincaré method for multiply connected regions. 182
Classification of open Riemann surfaces. 864
Royster, W. C.
Convexity and starlikeness of analytic functions. 261
Rozenberg, M. D.
Nonlinear system of partial differential equations. 983
Rozenfel'd, B. A.
Differential geometry of pairs $P_m + P_{n-m-1}$ in P_n. 498
Mathematical works of Nasirèddin Tusi. 524
Manifold of planes of a projective space as a projective geometry of points. 786
Spinor representations of real rotations. 797
Rozenfel'd, B. A., and Skopec, Z. A.
Cremona transformations and complex numbers. 679
Rozenknop, I. Z.
Homology groups of homogeneous spaces. 397
Rozet, O.
Congruences de droites. 793
R.-Salinas, B. See Rodríguez-Salinas, B.
Rubbiani, F. See Baccarani, V.
Rubinoff, M. See Gray, H. J., Jr.
Rubinowicz, A.
Sommerfeld's polynomial method. 472
Fields defined by elementary laws. 749
Rubinstein, H., and Rutledge, J. D.
*Matrix computations on the Univac. 1019
Ručimskiĭ, M. N.
Beam acted on by moving force. 335
Rudin, W.
Graves' closure criterion. 746
*Principles of mathematical analysis. 1070
Rudnick, I. See Medwin, H.
Rumer, Yu. B.
Action as a space coordinate. VI, VII 606, 706
Rund, H.
Hamiltonsche Funktion bei dynamischen Systemen. 420
Subspaces of a Finsler space. I, II. 499, 797
Curvature in Finsler spaces. 499
Krümmungstheorie der Finslerschen Räume. 499
Ruppel, W., et Weber, R.
Calcul de flutter. 922
Ruse, H. S.
Simple harmonic affine spaces. 1124
Rushbrooke, G. S., and Scoins, H. I.
Theory of fluids. 711
Rushforth, J. M.
Congruence properties of partition function. 249
Rushton, S.
Two-sided sequential t-test. 665
Tests of equality of variances. 996
Russek, J. See Friedman, B.
Russo, S.
Serie di polinomi di Legendre. 166
Sistemi di equazioni differenziali lineari. 556
Rutecki, J.
Instability of thin-walled bars. 601
Rutickiĭ, Ya. B. See Krasnosel'skiĭ, M. A.
Rutishauser, H.
Programmgesteuerte Rechenmaschinen. 209
Biorthogonalisierungs-Algorithmus von Lanczos. 1055
Rutledge, J. D. See Rubinstein, H.
Rutledge, W. A. (Cf. Ikenberry, E.)
Quaternions and Hadamard matrices. 443
Rvačeva, E. L. See Meĭzler, D. G.
Ryaben'kiĭ, V. S.
Finite differences applied to Cauchy's problem. 477
Rybkin, G. F.
*Weltanschauung of N. I. Lobačevskiĭ. 832
Ryder, F. L.
Network analysis. 434
Ryll-Nardzewski, C. (Cf. Finkelsztejn, L.; Florek, K.; Łoś, J.; Marczewski, E.)
Axiom of induction in elementary arithmetic. 938
Power series with random coefficients. 994

Ryll-Nardzewski, C. (Continued)
Séries de puissances de l'opérateur différentiel. 1097
Séries de puissances dans le calcul opératoire. 1097
Ryšavý, V.
*Vectors and tensors. 145
Ryser, H. J. (Cf. Mann, H. B.)
Matrices with integer elements. 346
Ryžik, I. M., and Gradšteĭn, I. S.
*Tables of integrals, sums, series and products. 3d ed. 643
Ržehina, N. F.
Field of local hypertorses in X_n. 1124
Rzewuski, J. (Cf. Rayski, J.)
Interaction of particles in Feynman's theory. 708
Interpretation of Klein-Gordon equation. 709
Perturbation theory. 709

Saban, G.
Varietà quasi-asintotiche. I, II, III. 205
Quasi-asintotiche ad n indici. 205
Curve sghembe in uno S_n. 407
Šabat, B. V. See Lavrent'ev, M. A.
Sackmann, L. A.
Mise en équation des résultats d'expériences. I, II. 321
Sadler, D. H. See Bickley, W. G.
Sadosky, M.
*Numerical and graphical calculation. 906
Sadowsky, M. A. See Sternberg, E.
Sadowsky, M. A., and Sternberg, E.
Pure bending of incomplete torus. 1038
Sáenz, A. W. (Cf. Hlavatý, V.)
Uniformly moving dislocations. 601
Šafarevič, I. R.
Kronecker-Weber theorem. 139
*General duality law and application to algebraic numbers. 1065
Sagastume Berra, A. E.
Theory of determinants. 235
Sagawa, A.
Ausnahmegebiete. 263
Sagrista, S. N.
Generalization of Pearson's curves. 665
Saibel, E. (Cf. Sedney, R.)
Buckling of continuous beams. 112
Sailer, H.
Bewegungsgleichungen der speziellen Relativitätstheorie. 1023
Šaišmelašvili, V. M.
Computation of a spherical shell. 925
Saito, O.
Two-dimensional flow of compressible fluid. 698
Saito, T.
Measure-preserving flow on the torus. I, II. 59, 769
Sakadi, Z.
Flexural vibration of a thin bar. 430
Sakaguchi, M.
Limit distribution. 567
Statistical applications of information theory. 996
Sakai, S.
Mautner's decomposition. 845
Sakata, S., Umezawa, H., and Kamefuchi, S.
Elementary particles. I. 608
Sakellariou, N.
Obituary: C. Carathéodory. 121
Strahlensysteme. 315
Saks, S., and Zygmund, A.
*Analytic functions. 1073
Saksena, K. M.
Generalized Laplace integral. 1081
Sakurai, T.
Microwave circuit theory. 605
Salam, A. (Cf. Matthews, P. T.)
Renormalized S-matrix for scalar electrodynamics. 706
Fredholm solutions of partial integral equations. 761

Salehov, G. S.
Process of tangent hyperbolas. 91
Asymptotic behavior of integrals of partial differential equations. 284
Cauchy's problem for partial differential equations. 284
Salem, R.
L'hypothèse de Riemann. 727
Salem, R., et Zygmund, A.
Séries trigonométriques dont les coefficients ont des signes aléatoires. 1081
Salenius, T.
Kürzeste Linien in Kugelschalenräumen. 769
*Geschlossene Räume konstanter negativer Krümmung. 794
Salié, H.
Satz von A. Moessner. 846
Abundante Zahlen. 949
Salinas, B. R.-. See Rodríguez-Salinas, B.
Salpeter, E. E., and Bethe, H. A.
Relativistic equation for bound-state problems. 707
Saltykow, N.
*The theory of partial differential equations of the second order. 559
Équations aux dérivées partielles du premier ordre. I, II. 650
Invariants différentiels des groupes fonctionnels d'intégrales. 650
Existence des intégrales d'un système d'équations aux dérivées partielles. 650
Équations aux différentielles totales. 650
Théorie du dernier multiplicateur. 650
Ordre d'un système d'équations différentielles. 650
Équations aux dérivées partielles du second ordre. 651
Vie et oeuvre de E. Cartan. 832
Saltzberg, B. See Cohn, G. I.
Saltzer, C.
Fundamental theorem of electrical networks. 704
Salvadori, M. G., and DiMaggio, F.
Plastic hinges in rigid-plastic beams. 1042
Salzer, H. E.
Calculating zeros of polynomials. 412
Numerical differentiation. 1018
Salzer, H. E., Zucker, R., and Capuano, R.
Zeros of first twenty Hermite polynomials. 90
Sambasiva Rao, P.
Series of eigenfunctions. 176
Eigenfunctions of the membrane problem. 1088
Sambo, A.
Derivazione sotto il segno di integrale. 737
Samet, P. A.
Equation in Gaussian integers. 354
Samoĭlova-Yahontova, N. S., and Makover, S. G.
Computation of special perturbations of minor planets. 414
Sampei, Y.
Orthogonal expansion of the Boolean polynomial. I. 4
Sampford, M. R.
Response-time distributions. I, II. 889
Inequalities on Mill's ratio. 995
Sampson, J. H.
Automorphic varieties. 633
Samuel, H. L.
*Essay in physics. 114
Samuel, P. (Cf. Cartan, H.)
Powers of ideals. 128
Singularités des variétés algébriques. 683
Tendances récentes de la géométrie algébrique. 900
*Algèbre locale. 1012
Samuelson, P. A.
Probability, utility, and the independence axiom. 393
Rapidly converging solutions to integral equations. 503
Sánchez-Díaz, R.
Definitions of group. 1058

Sandelius, M.
Estimation based on inverse hypergeometric sampling. 65
Confidence interval for smallest proportion of a binomial population. 488
Inverse binomial sampling. 665
v. Sanden, H.
Differentiation durch Integration. 1129
Sandham, H. F.
Approximation of radicals. 253
Two identities due to Ramanujan. 356
Sänger, R. See Perret, E.
Sangermano, C.
Corrispondenze puntuali fra spazi lineari. 79
San Juan, R.
Classes quasi analytiques et développements asymptotiques. 157
Holomorphic function approximating to a series. 258
Divergent series and asymptotic approximation. 543
Caractérisation des transformations de Laplace. 554
Fonctions représentables au moyen d'une intégrale de Laplace. 639
Theorem on linear functionals. 657
Fonction holomorphe dans un angle. 859
Système infini d'équations linéaires. 988
Vector spaces and thermodynamics. 1047
Séries divergentes. 1077
Sufficient conditions for radial continuation. 1078
Sanov, I. N.
Periodic groups. 722
Santaló, L. A.
Probability in geometrical constructions. 59
Circles on a spherical surface. 495
Integral geometry in spaces of constant curvature. 496
*Problems of integral geometry. 577
Mean values on the hemisphere. 788
Pairs of convex figures. I, II. 788
Sanz de Bremond, A. Plans. See Plans Sanz de Bremond.
Sapa, V. A.
Cylinder rotating about its axis. 917
Šapiro, I. S.
Transformation laws for spinors. 339
Wave functions of particles with spin $\frac{1}{2}$. 1047
Šapiro, Ya. L.
Projective systems of curves. 795
Šapiro, Z. Ya.
Elliptic system of differential equations. 652
Šapiro-Pyateckiĭ, I. I.
Uniqueness of trigonometric series. 161
Waring-Goldbach problem. 451
Šapošnikov, I. G.
Theory of weak convection. 217
Saralegui, A. M.
Stereo-plotting instruments. 504
Sarantopoulos, S. B.
Contour integrals satisfying differential equations. 169
Sard, A.
Remainders as integrals of partial derivatives. 360
Approximation and variance. 658
Sargent, W. L. C.
Summability of infinite integrals. 160
Sarginson, K.
Four-dimensional plane wave. 876
Sario, L.
*Classification des surfaces de Riemann. 863
Extremal method on Riemann surfaces. 863
Modular criteria on Riemann surfaces. 969
Minimizing operators on subregions. 969
Sarmanov, O. V.
Symmetric correlation. 64
Nonsymmetric correlation. 64
Sasaki, S. (Cf. Yano, K.)
Liber's theorem. 87
Sasaki, S. (Continued)
Obituary: T. Kubota. 832
Mathematical publications of T. Kubota. 832
Sasaki, T.
Solution of trans-sonic flow. 920
Sasaki, Y.
Multivalent functions. 549
Sasayama, H.
Exterior differential forms on higher order manifolds. 690
Sassenfeld, H.
Iteration bei linearen Gleichungen. 692
Sastry, A. Sree Rama.
Serial correlation coefficients. 66
Moments of moment statistics. 66
Satake, I.
Brauer group of a discretely-valued complete field. 240
Theorem of E. Cartan. 448
Hilbert's theory of ramification. 452
Šatašvili, S. H.
Vibrations with given external forces. I, II. 223, 1039
Steady elastic vibrations for given displacements. I, II. 336, 1039
Sato, H.
Teilerkettensatz in kommutativen Ringen. 941
Sato, I.
Quantum field theory in configuration space. 826
Sato, R.
Errata. 189
Sato, S.
Lattice homomorphisms of infinite groups. I. 618
Satō, Tokui.
Equations intégrales de Volterra. 878
Satô, Y.
Surface waves. V, VI, VII, VIII. 113, 337, 702, 1147
Elastic waves in media with holes. 1147
Satoh, Tunezo.
Heat conduction with variable transfer coefficient. 283
Complex boundary value problem. 472
Statten, R. A.
Object and image space for thin lenses. 603
Sauer, R.
*Einführung in die theoretische Gasdynamik. 107
Iterationsverfahren für Unterschallströmungen. 218
Charakteristikentheorie partieller Differentialgleichungen. 381
Gruppen infinitesimaler Kollineationen. 406
*Anfangswertprobleme bei partiellen Differentialgleichungen. 559
Unterschallströmungen um Profile. 598
Saunders, W. K.
Maxwell's equations in an exterior region. 823
Sauvenier-Goffin, E.
Manuscrits de Bosmans relatifs à Saint-Vincent. 343
Savage, L. J. See Nunke, R. J.
Saverio, R. Francesco-. See Francesco-Saverio.
Savin, G. N.
Obituary: A. N. Dinnik. 832
Savin, S. A.
Integrals of three-dimensional Laplace equation. 272
Savinov, G. V.
Auto-oscillations in nonlinear systems. 1087
Sawyer, D. B.
Lattice point in n-dimensional point sets. I, II. 253
Saxén, T.
Théorie de risque collective. 1100
Saxer, W.
Errata. 368
Scarf, H.
Group invariant integration and fundamental theorem of algebra. 126
Scarfiello, R. See González Domínguez, A.

Sce, M.
Generalizzazione delle matrici di Riemann. II. 8
Sčeglov, M. P.
Hardy-Landau-Vijayaraghavan theorem. 1078
Arithmetic mean sums of Cesàro. 1078
Ščerbakov, R. N.
Affine- and projective-invariant classes of lines on a surface. 87
Schaeffer, A. C.
Entire functions and trigonometric polynomials. 631
Schaeffer, A. C., and Spencer, D. C.
*Variational method for simply connected domains. 743
Schäfer, M.
Phasenplan nichtlinearer freier Schwingungen. 323
Dünne schwach gebogene Platten. 817
Schäfer, W.
Bayes-Funktion ohne Hypothese. 889
Schäffer, J. J. See Halmos, P. R.
Schaffner, J. S.
Oscillations in nonlinear systems. II. 558
Schäfke, E. W.
Eigenwertprobleme mit zwei Parametern. 185
Scharff, H.
Darstellung der Krümmungen einer Flächenkurve. 901
Schatzman, E. See Régnier, A.
Scheffé, H.
Analysis of variance for paired comparisons. 488
Scheibe, E.
Ein verallgemeinerter affiner Zusammenhang. 1123
Scheidegger, A. E. (Cf. Krotkov, R. V.)
Multiple quantization. 826
Scheidegger, A. E., und McKay, C. D.
Thermodynamische Vakuumschwankungen der Wellenfelder. 710
Schelkunoff, S. A.
Generalized telegraphist's equations for waveguides. 338
Schenk, J. See van der Does de Bye, J. A. W.
Schenkman, E.
Infinite Lie algebras. 444
Scherberg, M. G., and Riordan, J. F.
Polynomial and trigonometric expansions. 694
Scherk, P.
Convex bodies off center. 541
Scherrer, W.
Summe der reziproken Quadratzahlen. 160
Feldtheorie der Materie. 417
Metrisches Feld und vektorielles Materiefeld. 417
Schiffer, M. See Bergman, S.; Bodenheimer, F. S.; Garabedian, P. R.; Miller, K. S.
Schiffer, M., and Spencer, D. C.
*Variational methods for multiply connected domains. 743
Schild, A. (Cf. Pirani, F. A. E.)
Conformal mapping of schlicht functions. 861
Schiller, R. See Bergmann, P. G.
Schindler, J. J.
Theorie von Stützfunktion und Radius. 686
Schläfli, L.
*Gesammelte mathematische Abhandlungen. Band II. 833
Schlichting, H., und Truckenbrodt, E.
Strömung an einer rotierenden Scheibe. 104
Schlomka, T.
Darstellung physikalischer und geometrischer Grössen durch Welttensoren. 915
Schlüter, A. See Lüst, R.
Schmeidler, F.
Annäherung an das Dreikörperproblem. 212
Schmeidler, W.
Theorie des Schwingenfluges. II. 104
Algebraische Integralgleichungen. 382
Schmetterer, L.
Satz über Diophantische Approximationen. 359
Schmetterer, L. (Continued)
Beispiel aus der Statistik. 391
Produkt zweier Linearformen. 623
Bayessche Regel. 1102
Verfahren der stochastischen Iteration. 1103
Schmid, H.
Graphische Methode des mehrfachen Einschneidens. 909
Schmidt, A.
Lineare partielle Differentialgleichungen. 285
Systeme quasilinearer partieller Differentialgleichungen. 756
Schmidt, H.
Verteilungsfunktionen für Bose- und Fermi-Statistik. 829
Schmidt, J.
Filtertheorie. I. 255
Schmidt, Klaus.
Existenzgebiete regulärer Quaternionenfunktionen. 38
Schmidt, Kurt.
Elastizitätsprobleme mit Hilfe hyperkomplexer Singularitäten. 428
Schmidt, O.
Computation of the ahargana. 609
*Autolycus' On risings and settings. 831
Schmieden, C.
Aufschlag auf eine Wasseroberfläche. 1028
Schmutz, O.
Dämpfungsgrad bei Ausgleichvorgängen. 747
Schneider, H.
Theorems on normal matrices. 610
Inequality for latent roots. 1055
Schneider, P. J.
Numerical method for heat sources. 801
Schneidt, M.
Fläche, deren sphärisches Bild gegeben ist. 316
Schoch, A., und Steinwedel, H.
Energie-Impuls-Tensor linearer klassischer Feldtheorien. 340
Schoenberg, I. J. (Cf. Aissen, M.; Motzkin, T. S.)
Inner-product spaces. 564
Schoenberg, I. J., and Whitney, A.
Pólya frequency functions. III. 732
Scholz, H.
Begriff einer mathematischen Theorie. 714
Schönberg, M.
Damping in quantum mechanics. 340
Classical statistical mechanics. I. 710
Generalization of quantum mechanics. 825
Schöneborn, H.
Linearformenmoduln unendlichen Ranges. I, II. 11
Schönhardt, E.
Positiv definite Matrizen. 346
Projektion von Vektoren auf Kurven. 685
Schopper, H.
Optik dünner Schichten. 702
Schouten, J. A.
Subprojective affine connections. 1123
Schouten, J. A., and van der Kulk, W.
Pfaff's problem and its generalizations. 583
Schrag, R. L. See Gibbons, J. J.
Schröder, K. See Quick, A. W.
Schrödinger, E.
Relativistic Fourier reciprocity. 436
Schröter, K.
Deduktiv abgeschlossene Mengen ohne Basis. 234
Schubart, H., und Wittich, H.
Ganze Funktionen und ihre Riemannschen Flächen. 260
Schubert, Hans.
Potentiale der auf dem Mantel eines Kreiszylinders ausgebreiteten Belegung. 556
Randwertproblem der Potentialtheorie. II. 589
Schuh, H.
Heat transfer in a laminar boundary layer. 600

Schumann, W. O.
Elektromagnetische Eigenschwingungen. 116
Ausbreitung langer elektrischer Wellen. 703
Schuster, K. See Meier, R.
Schütte, K.
Quasirekursive Funktionen. 527
Schütte, K., und van der Waerden, B. L.
Problem der dreizehn Kugeln. 787
Schützenberger, M. P.
Treillis modulaire. 612
Equation fonctionnelle: $F(x+y)=F(x)F(y)$. 768
Groupe de permutations d'un ensemble fini. 1058
Schwartz, L.
Transformation de Laplace des distributions. 639
Multiplicateurs de FL^p. 767
de Schwarz, M. J.
Teorema di unicità per le equazioni differenziali. 783
Schwarz, Š.
Simple semigroups without zero. 12
*Algebraic numbers. 22
Semigroups having a kernel. 444
Schwarzl, F. See Urban, P.
Schwenkhagen, H. F.
Deutung der Laplace-Transformation. 639
Schwerdtfeger, H.
Matrices permutables avec leur dérivée. 610
Problems in theory of matrices. 939
Schwetman, H. D., and Brown, S. L.
Analysis of electric circuits. 1044
Scoins, H. I. See Rushbrooke, G. S.
Scorza Dragoni, G.
Convergenza in lunghezza. 1072
Scorza Toso, A.
Derivazione di una funzione composta. 456
Scott, D. B.
Correspondences between algebraic surfaces. 79
Scott, E. J.
Jacobi transforms. 869
Scott, E. L. See Neyman, J.
Scott, T.
Φ-invariant of two quadrics. 1007
Scott, W. R. (Cf. Chowla, S.)
Transitive sets of homomorphisms. 723
Scott, W. T.
Reciprocal of a continued fraction. 266
Sears, D. B.
Two identities of Bailey. 271
Sears, W. R. See Adams, M. C.
Sebastião e Silva, J.
Obituary: G. Castelnuovo. 343
Teoria dei funzionali analitici. 656
Sedmak, V.
Dimension des ensembles partiellement ordonnés. 783
Sedney, R., Charnes, A., and Saibel, E.
*Reynolds lubrication equation. 812
Sedov, L. I.
Life and activity of L. S. Leĭbenzon. 122
One-dimensional motions of a gas. 425
*Similarity and dimensional methods in mechanics. 809
Seeger, A., Donth, H., und Kochendörfer, A.
Versetzungen in eindimensionalen Atomreihen. III. 821
Seeger, R. J. See Ludford, G.
Segal, I. E.
Operators on Lie groups. 448
Non-commutative extension of abstract integration. 991
Segre, B.
*Forme differenziali e loro integrali. Vol. I. 208
Applicazioni del calcolo esterno. 209
Singolarità delle varietà algebriche. 683
Curve giacenti su di una quadrica. 789
Corpi risolventi delle equazioni algebriche. 900
Sehniašvili, Ê, A.
Systems with an infinite number of degrees of freedom. 223
Šehter, V.
Positive integrals of Maxwell's equations. 1150
Seidel, J.
Distance-geometric development of geometry. I, II. 75, 494
Seidel, W.
*Bibliography of numerical methods in conformal mapping. 589
Seidenberg, A.
Differential algebra. 130
Dimension theory of rings. 941
Seifert, G.
Irregular boundary value problem. 278
Existence of solutions of a differential equation. 647
Sekar, C. Chandra. See Chandra Sekar.
Sekerž-Zen'kovič, Ya. I.
Standing waves of finite amplitude. 423
Seki, S.
Change of variables in multiple integrals. 856
Selberg, Atle.
*Elementary methods in prime number theory. 726
Selfridge, R. G.
Approximations with least maximum error. 1067
Selig, K. L. See Hersom, S. E.
Selmer, E. S.
Dixon elliptic functions. 539
*Homogeneous Diophantine equations. 621
Şemin, F.
Darboux lines. 685
Semple, J. G.
Variety whose points represent complete collineations of S_r on S'_r. 78
Complete quadrics. II. 78
Semple, J. G., and Kneebone, G. T.
*Algebraic projective geometry. 197
Sen, R. N.
Algebraic system generated by a single element and Riemannian geometry. III. 317
Teleparallelisms. 1123
Sen Gupta, A. M.
Bending of cylindrically aeolotropic circular plate. 1144
Sengupta, H. M.
Definite integral. 1084
Senior, T. B. A. (Cf. Clemmow, P. C.)
Diffraction by a metallic sheet. 225
Diffraction of dipole field by a half-plane. 933
Sen-ming Leng. See Leng.
Serafimov, P. R.
Spannungszustand hyperbolischer Schalen. 1143
Beiträge zur Hyperbelschale. I, II. 1144
Serebrennikov, M. G.
Cam profiles for flat followers. 1136
Serebryanyĭ, R. V.
Motion of the center of mass and the width of wave packets. 825
Šeremet'ev, M. P.
Elastic equilibrium of an infinite plate. 222
Elastic equilibrium of elliptic ring. 1145
Sergescu, P.
Vie scientifique en Italie. 1049
Šerman, D. I. See Stepanov, R. D.
Serpe, J.
Two-component wave equations. 435
Serre, J.-P. (Cf. Borel, A.; Cartan, H.; Hochschild, G.)
Cinquième problème de Hilbert. 136
Calculs de groupes d'homotopie. 1110
Serrin, J.
Two hydrodynamic comparison theorems. 326
Free boundary problems. 1137

Serruys M.
*Ecoulement d'un gaz à travers une tuyère. 922
Sesekin, N. F.
Locally nilpotent groups without torsion. 15
Sestini, G.
Stabilità in meccanica non lineare. 170
Problemi analoghi a quello di Stefan. 381
Problema di Stefan. 476
Obituary: P. Teofilato. 833
Šestopalov, V. P.
Heated boundary layer. 697
Seth, B. R.
Finite elastic-plastic torsion. 113
Solutions of the wave equation. 757
Seth, G. R. See Sukhatme, P. V.
Sevdić, M.
Définition des fonctions hyperboliques. 643
Severi, F.
Fondamenti della geometria algebrica. 2
Geometria sopra una curva. 80
Teoria della base. 80
Complementi bibliografici ai "Fondamenti per la geometria sulle varietà algebriche, II." 313
Leonardo e la matematica. 832
Concezioni di varietà nella geometria algebrica. 1011
*Funzioni analitiche e forme differenziali. 1077
Severn, R. T. See Allen, D. N. de G.
Severnyĭ, A. B. See Ambarcumyan, V. A.
Sexl, T.
Bewegung eines Massenpunktes in einem widerstehenden Mittel. 101
Stationäre Strömen und magnetische Doppelschichten. 934
Shah, A. B.
Polynomial expansion of a cumulant. 189
Shah, S. M.
Entire and meromorphic functions. 365
Entire functions of perfectly regular growth. 366
Shah, S. M., and Ishaq, M.
Maximum modulus and coefficients of an entire series. 631
Shan-fu Shen. See Shen, Shan-fu.
Shanmugadhasan, S.
Dynamical theory of magnetic monopoles. 118
Spinors and spinning particles. 118
Quantization of classical spin theory. 710
Shapiro, G.
Dirichlet series and Ramanujan's t-function. 21
Shapiro, H. N. See Bellman, R.
Shapiro, V. L.
Double trigonometric series. 974
Shapley, L. S.
*Quota solutions of n-person games. 779
*Value for n-person games. 779
Sharma, A.
Problem of Lukacs. 470
Zeros of a certain polynomial. 640
Sharp, R. T. See Horton, G. K.
Sharpe, J. A., and Fullerton, P. W.
Punched card methods in geophysical interpretation. 589
Shaw, R. H.
Theorem of Frobenius. 618
Shaw-Kwei Moh. See Moh, Shaw-Kwei.
Sheffer, I. M.
Entire functions. 259
Derivatives of certain functions. 631
Sheldon, J. W.
*Numerical evaluation of $\int_a f(x)g(x)dx$. 91
Sheldon, J., and Thomas, L. H.
Large scale computing in physics. 799
Shelton, G. L., Jr. See Borden, A.
Shen, D. W. C.
Synthesis of uniform transmission line. 1150
Shen, D. W. C., and Broadbent, H. N. G.
Analysis of partly symmetrical machines. 519
Shen, Shan Fu.
Singular directions of two-dimensional shock. 330
Hypersonic flow over insulated wedge. 331
Shepard, H. A. See Barrett, F. D.
Shephard, G. C.
Unitary groups generated by reflections. 1060
Shepherdson, J. C.
Inner models for set theory. II. 834
Shercliff, J. A.
Motion of conducting fluids in pipes. 596
Sherman, L.
Scalar-vorticity and horizontal-divergence equations. 512
Sherman, S.
Doubly stochastic matrices. 346
Shield, R. T.
Boundary value problems in soil mechanics. 931
Shiffman, M.
Existence of subsonic flows. 510
*Effective determination of conformal mapping. 632
Shiing-shen Chern. See Chern, Shiing-shen.
Shimada, N.
Mappings of 4-dimensional complex into 2-dimensional sphere. 673
Shimamoto, T. See Bose, R. C.
Shimazu, H. See Hara, O.
Shimoda, I.
Notes on general analysis. I. 766
Shimose, T.
Retardation effects in the non-local field theory. 828
Shimura, G.
Center of a Frobeniusean algebra. 1057
Shirota, T.
Spaces with complete structure. 68
Class of topological spaces. 395
Theorem of Kaplansky. 669
Shmoys, J. See Sollfrey, W.
Shoda, K.
Algebraische Erweiterungen. 614
Abelsche Gruppen mit Operatoren. 616
Sholander, M.
Trees, lattices, order, and betweenness. 9
Theory of convex curves. 787
Shôno, N., and Oda, N.
Non-local interaction. 608
Shortley, G.
Numerical solution of boundary-value problems. 1019
Shouten, I. A. See Schouten, J. A.
Shrikhande, S. S.
Balanced incomplete block designs. 235
Shu, S. S.
*Spherical cavity in viscous fluid. 1031
Shukla, R. See Singh, R. K. P.
Sibagaki, W.
*Theory and applications of the gamma function. 748
Sibagaki, W., and Ono, A.
Mean-value theorem of harmonic functions. 979
Sibirani, F.
Problema di probabilità. 566
Siddiqi, J. A.
Théorèmes d'unicité. 858
Siegel, C. L.
*Modulgruppe in einer einfachen involutorischen Algebra. 623
Dreikörperproblem. 910
Siegel, K. M.
Three-dimensional conformal transformations. 374
Siegel, K. M., Crispin, J. W., Kleinman, R. E., and Hunter, H. E.
Zeros of $P'_{n_i}(x_0)$ of non-integral degree. 321

Siegert, A. J. F.
First passage time probability problem. 887
Sierpiński, W. (Cf. Davis, A. C.)
Ensemble à 3 éléments. 25
Familles de fonctions et application aux espaces topologiques. 25
Propriété équivalente à l'hypothèse du continu. 26
Puissance du continu. 26
Fonctions d'ensemble. 26
Exemple de Kunugi de la théorie des espaces abstraits. 68
Problème de Zarankiewicz. 146
Suites doubles de fonctions. 148
Formule donnant les nombres premiers. 355
*General topology. 394
Ensembles non mesurables. 456
Etat actuel de l'hypothèse du continu. 544
*Les ensembles projectifs et analytiques. 627
Uniformisation des complémentaires analytiques. 690
Extension d'un théorème de Pompeiu aux nombres transfinis. 1068
Produits infinis de nombres ordinaux. 1068
*Diviseurs de types ordinaux. 1069
Types ordinaux dont tous les vrais restes sont égaux. 1069
Homéomorphie entre un segment de droite et un carré. 1108
Siestrunck, R. See Bernard, J.-J.
Sigalov, A. G.
Two-dimensional problems of calculus of variations. I, II. 291
Signorini, A.
Leonardo e la meccanica. I, II. 524
Elenco delle pubblicazioni. 833
Sikorski, R. (Cf. Marczewski, E.)
Characterization of alephs. 26
Dimension theory in closure algebras. 70
Homomorphisms, mappings and retracts. 71
Free $\aleph_1$-complete Boolean algebras. 347
Products of abstract algebras. 839
Generalized limits and means. 1108
Silin, V. P.
Superconducting cylinder and sphere. 704
Sillitto, G. P.
Samples from any continuous population. 64
Šilov, G. E.
Vectorially smooth functions. 374
Homogeneous rings of functions on the torus. 385
*Introduction to the theory of linear spaces. 881
Rings of functions with uniform convergence. 884
Decomposition of commutative normed ring. 884
Silva, G.
Coefficient di un polinomio di funzioni sferiche. 414
Silva, J. Sebastião e. See Sebastião e Silva.
Silverman, E.
Set functions associated with Lebesgue area. 149
Silverman, L. L.
Generalization of hyperbolic and trigonometric functions. 871
Šimanov, S. N.
Stability of solution of a nonlinear equation. 1087
Simoda, S. See Nagumo, M.
Simon, H. Ap. See Ap Simon, H.
Simon, H. A.
Servomechanism theory in study of production control. 302
*Technological change in linear model. 668
Simon, J.-C. See Ortusi, J.
Simonart, F.
Déplacements dans le plan complexe. 629
Simoni, F. De. See De Simoni.
Simonoff, N.
Systèmes elliptiques linéaires d'ordre quelconque. 652
Simons, W. H.
Fourier coefficients of the modular function $\lambda(\tau)$. 250
Simpson, E. H.
Interaction in contingency tables. 486
Simpson, O. C. See Thorn, R. J.
Sinclair, A.
Zeros of an analytic function. 31
Singer, I. M. (Cf. Kadison, R. V.)
Uniformly continuous representations of Lie groups. 135
Singh, A. N. See Hobson, E. W.
Singh, Baikunth Nath.
Markoff's chain in testing randomness. 777
Singh, Daljit.
Numbers $L(m, n)$ and Bernoullian and Eulerian numbers. 727
Divisibility of Eulerian and prepared Bernoullian numbers. 728
Singh, K. P. See Narlikar, V. V.
Singh, R. K. P., and Shukla, R.
Götlind's axiom system for calculus of propositions. 345
Singh, S. K.
Entire functions. 33
Singh, Udita Narayana. (Cf. Prasad, B. N.)
Derived series of a Fourier series. 745
Théorèmes de Hille et Tamarkin. 746
Sinha, P.
Runs in samples from Poisson population. 1102
Sinnette, J. T., Jr. See Costello, G. R.
Sips, R.
Equation intégrale des fonctions de Mathieu. 271
Siraždinov, S. H.
Homogeneous Markov chains. 187
Sirokov, Yu. M.
Relativistic theory of free particles. 437
Particles with zero rest-mass. 437
Sirvint, G.
Weak compactness in Banach spaces. 183
Sitenko, A. G. See Ahiezer, A. I.
Sitnikov, K. A.
Continuous mappings of open sets. 489
Two-dimensional set in three-dimensional Euclidean space. 894
Sizova, O. A.
Restricted problem of three bodies. 589
Skabickiĭ, I. N.
Application of kinetic equation to star systems. 415
Skan, S. W. See Frazer, R. A.
Skinner, R. See Pirani, F. A. E.
Skitovič, V. P.
Property of the normal distribution. 1098
Sklar, A.
Factorization of squarefree integers. 356
Skolem, T.
3-adic analysis and "cofields" applied to cubic equations. 19
nth non-power-residue mod p. 21
Diophantine equation $ax^2 + by^2 + cz^2 = 0$. 136
Discriminant of polynomial and irreducible factors. 251
Congruence of 4th degree modulo p. 353
Classical sentential calculus. 526
Theorem on semi-groups. 842
*Irrationality and linear independence. 851
Set theory based on positive logic. 937
Skopec, Z. A. (Cf. Rozenfel'd, B. A.)
Configurations of Desargueš. 399
Skornyakov, L. A.
Alternative fields of characteristic 2 and 3. 240
Alternative fields. 241
Skory, J.
Machine method of calculating contingency X^2. 568
Skovgaard, H. See Petersen, R.
Skudrzyk, E.
Eigenschaften fester, flüssiger und gasförmiger Körper. II. 328
Slade, J. J., Jr.
Elastic axes of one-mass elastically supported system. 221

Slater, L. J.
Identities of Rogers-Ramanujan type. 138
Transformations of bilateral series. 271
Integral of hypergeometric type. 372
General hypergeometric transformations. 372
Ślebodziński, W.
Déformations de l'espace. 1122
Slezkin, N. A.
Differential equations for motion of pulp. 424
Flow about a gas-filled shell. 508
Cutting into a viscous medium. 697
Resolution of the motion of a particle. 808
Slobodyanskiĭ, M. G.
Error in solution of linear problems. 502
Approximate solution in linear problems reducing to variational ones. 502
Sloovere, H. De. See De Sloovere.
Smart, E. H.
*Advanced dynamics. I, II. 419
Smiley, M. F. (Cf. Leum, M.)
Left division systems with left unit. 10
Right H^*-algebras. 660
Smillie, K. W. See Griffith, B. A.
Smirnov, D. M.
Automorphisms of soluble groups. I, II. 14, 947
Smirnov, V. I.
*A course of higher mathematics. Vol. IV. 2d ed. 145
Smirnov, V. I., and Bermant, A. F.
Obituary: G. M. Goluzin. 2
Smirnov, Yu. M.
Metrization of topological spaces. 70
Weight of the ring of bounded continuous functions. 70
Coverings of topological spaces. 303
Mappings of systems of open sets. 303
Finally compact spaces. 782
Metrizability of topological spaces. 893
Proximity spaces. I, II. 1107
Smith, E. S.
*Binomial, normal and Poisson probabilities. 887
Smith, K. T. See Donoghue, W. F., Jr.
Smith, M. F.
Pontrjagin duality theorem in linear spaces. 183
Smith, N. M., Jr., Walters, S. S., Brooks, F. C., and Blackwell, D. H.
Theory of value and science of decision. 778
Smith, P. A.
Complex of a group. I, II. 18
*Topological notions connected with a set of generators. 18
Smith, R. A.
Equation connected with triode oscillations. 276
Smith, R. C. T.
Interpolatory function analogous to cardinal function. 258
Smith, W. L. (Cf. Cox, D. R.)
Distribution of queueing times. 993
Central limit theorem. 1099
Smith-White, W. B.
Theory of dielectrics. 432
Smogorževskiĭ, A. S.
*Geometric constructions in the Lobačevskiĭ plane. 575
Geometric constructions in hyperbolic and Euclidean planes. 576
Smolyakov, P. T.
Stationarity of a baric field. 428
Equations of motion in the atmosphere. 428
Smolyakov, P. T., and Hovanskiĭ, A. N.
Algebraic equations of 3rd degree. 209
Šmul'yan, Yu. L.
Unconditionally and absolutely convergent series. 658
Isometric operators with infinite deficiency indices. 882
Riemann's problem for positive definite matrices. 1073
Sneddon, I. N.
Diffusion equation for medium generating heat. 476
Šneĭder, V. E.
Continuous images of Suslin and Borel sets. 782
Descriptive theory of sets in topological spaces. 782
Šneĭdmyuller, V. I.
Algebras of infinite rank. 349
Snell, J. L.
Martingale system theorems. 295
Sobczyk, A. See Hammer, P. C.
Sobociński, B.
Universal decision element. 799
Axiomatization of three-value calculus of propositions. 834
Sobolev, S. L.
*Some applications of functional analysis in mathematical physics. 565
Cauchy's problem for systems not of Kowalewsky type. 655
New problem for partial differential equations. 655
Difference equations of elliptic type. 987
Difference equation. 987
Sobolev, V. I. (Cf. Lyusternik, L. A.)
Self-adjoint operators in Hilbert space. 385
Sobolev, V. V. See Ambarcumyan, V. A.
Söchting, F.
Berechnung von Eigenschwingungszahlen. 322
Sohon, H. See Gray, H. J., Jr.
Sokolnikoff, I. S.
*Conformal mapping in theory of elasticity. 817
Sokolov, A., and Ivanenko, D.
*The quantum theory of fields. 1044
Sokolov, Yu. D.
*Singular trajectories of a system of free material points. 910
Sollfrey, W.
Diffraction by conducting wedges and cones. 1148
Sollfrey, W., and Shmoys, J.
Diffraction by wire grating. II. 933
Solncev, Yu. K.
Stability of equilibrium positions of differential equations. 275
Solodovnikov, V. V.
*Statistical dynamics of systems of automatic regulation. 388
Solovelčik, R. È. See Gandin, L. S.
Solow, R.
Structure of linear models. 302
Solyanik-Krassa, K. V.
Axially symmetric problem of elasticity. 819
Som, Ranjan K. See Rao, S. Raja.
Somers, E. V.
Acoustic waves in a liquid-filled hole. 1142
Sominskiĭ, I. S. See Faddeev, D. K.
Sommer, F.
Integralformeln mehrerer komplexer Veränderlichen. 368
Sommerfeld, A.
*Mechanics. Lectures on theoretical physics, Vol. I. 419
*Electrodynamics. Lectures on theoretical physics, Vol. III. 433
Soós, Gy.
Hellyscher Satz für vollständige konvexe Flächen. 788
Sorace, O.
Integrabilità di un sistema di equazioni differenziali. 205
Calcolo differenziale assoluto. 205
Curva di cui siano assegnate la curvatura e la torsione. 404
Sorkin, Yu. I.
Axioms defining a lattice. 612
Sorokin, V. S.
Isothermic gaseous spheres. 212
Soudan, A.
Eléments canoniques du mouvement elliptique. 1132
Southwell, R. V., and Vaisey, G.
*Problem suggested by Saint-Venant's 'Mémoire sur la torsion des prismes.' 1146

Souza, J. E. Rios de. See Rios de Souza.
Sowerby, L.
Couple on a rotating spheroid. 812
Sowerby, L., and Cooke, J. C.
Flow along corners and edges. 1031
Špaček, A.
Statistical decision problems. 65
Spain, B.
*Tensor calculus. 1017
Spampinato, N.
Algebre complesse, commutative, dotate di modulo. 8
Funzioni totalmente derivabili nelle algebre complesse. 8
Funzioni sen ξ, cos ξ, e^{ξ} nel campo ipercomplesso. 346
Falde bidimensionali. 1011
Varietà dell' S_n complesso. 1116
Specht, W.
Zahlentheorie der Polynome. I, II, III, IV. 251, 728
Speiser, Ambros P.
Rechengeräte mit linearen Potentiometern. 504
Spence, R. D. See Hiedemann, E.
Spencer, D. C. (Cf. Garabedian, P. R.; Schaeffer, A. C.; Schiffer, M.)
Cauchy's formula on Kähler manifolds. 89
Spencer, D. E. See Moon, P.
Spencer, L. V.
Calculation of distributions from Legendre polynomial expansions. 907
Spencer, R. C., and Parke, N. G., III.
Approximation of power series. 322
Speranskiĭ, N. V. See Čerkudinov, S. A.
Spiegel, M. R.
Dirac delta-function and Fourier series. 162
Class of irrational numbers. 541
Series resulting from Maclaurin expansion. 745
Spitzer, L., Jr.
Equations of motion for an ideal plasma. 605
Sprague, R.
Additive Zerlegungen einer Teilfolge der natürlichen Zahlenreihe. 451
Spreiter, J. R. See Heaslet, M. A.
Springer, M. D.
Joint sampling distribution of mean and standard deviation. 887
Squire, H. B.
Wing theory at supersonic speed. 109
Viscous fluid flow problems. I. 1139
Średniawa, B. (Cf. Rayski, J.)
Free dipole and quadrupole particles. 214
Šrelder, Yu. A.
Rings of measures with convolution. 768
Sretenskiĭ, L. N.
Waves of finite amplitude. 423
Propagation of waves from a sounding disc. 428
Theory of waves from 1917 to 1949. 508
Cylinder under surface of a heavy fluid. 508
Scientific production of S. A. Čaplygin. 609
Propagation of elastic waves. 820
Goryačev-Čaplygin gyroscope. 1024
Srinivasan, M. S.
Shortest semiregular continued fractions. 360
Srinivasiengar, C. N., and Mukherjee, B. N.
Quadric surface. 195
Srivastava, R. S. L.
Method of summability. 973
Stabler, E. R.
*An introduction to mathematical thought. 441
von Stackelberg, H.
*Exchange rates under perfect competition. 999
Stallmann, F. (Cf. Epheser, H.)
Konforme Abbildung von Kreisbogenpolygonen. 1076
Stampacchia, G.
Funzioni in n variabili. 30
Problemi al contorno per equazioni di tipo ellittico. 483
Stange, K.
Ausgleichen von Kurven in Parameterdarstellung. 1127
Stanojević, C. V.
System of set equations. 854
Stanyukovič, K. P.
Origin of the solar system. 96
Stapan [Stapans], A. Ē.
Nonlinear integral equations. 766
Staržinskiĭ, V. M.
Stability of unsteady motion in one case. 170
Stability of a mechanical system. 754
Statz, H. See Fues, E.
Stebakov, S. A.
Qualitative investigation of $\dot{x}=P(x,y)$, $\dot{y}=Q(x,y)$. 274
Steck, M.
Proklus Diadochus. 1051
Stečkin, S. B.
Absolute convergence of Fourier series. 974
Steel, W. H.
Répartition de lumière dans l'image d'une ligne. 114
Steenrod, N. (Cf. Eilenberg, S.)
Homology groups of symmetric groups. 1005
Cyclic reduced powers of cohomology classes. 1006
Steffensen, J. F.
Makeham-graduated tables. 324
Stein, G. M.
*Conformal maps of electric and magnetic fields. 604
Stein, M. L.
Systems of linear equations. 322
Newton's method in Banach spaces. 1094
Stein, P.
Characteristic roots of a matrix. 8
Šteĭnberg, N. S.
Interpolation of entire functions. 33
Steinberg, R., and Redheffer, R. M.
Simultaneous trigonometric approximation. 635
Steinberger, M.
Diameter of a polygon. 896
Steiner, A.
*Abelsche Integrale erster Gattung. 743
Steinfeld, O. See Rédei, L.
Steinhaus, H.
Fonctions indépendantes. VIII. 994
Steinwedel, H. See Schoch, A.
Stender, P. V.
Word problem for certain groups. 723
Stenius, E.
Formalisierte Zahlentheorie und ihre formale Widerspruchsfreiheit. 345
Stenzel, H.
Akustische Strahlung der Kolbenmembran. 600
Štepa, N. I.
Cylindrical electron lenses. 115
Stepanov, R. D., and Curkov, I. S.
Cylindrical shell reinforced by ring. 1036
Stepanov, R. D., and Serman, D. I.
Torsion of a bar weakened by cavities. 430
Stephens, K. M.
Boundary problem in plane stress. 333
Stephenson, G.
Affine field structure. 1134
Stephenson, G., and Kilmister, C. W.
Unified field theory. 1134
Sternberg, E. See Sadowsky, M. A.
Sternberg, E., and Rosenthal, F.
Elastic sphere under concentrated loads. 926

Sternberg, E., and Sadowsky, M. A.
Axisymmetric problem of theory of elasticity for an infinite region containing two spherical cavities. 926
Sternberg, E., Eubanks, R. A., and Sadowsky, M. A.
*Axisymmetric problem of elasticity theory. 926
Sternberg, R. L.
Variational methods and non-oscillation theorems for differential equations. 50
Sternberg, R. L., and Kaufman, H.
Multiple non-uniform transmission lines. 606
Stevens, G. W. H.
Stability of compressed elastic ring. 223
Stevens, W. L.
Tables of the angular transformation. 1126
Stevenson, A. F., and Bassali, W. A.
Differential equations factorizable by Schrödinger-Infeld method. 472
Steward, G. C.
Cardinal points in plane kinematics. 592
Stewart, B. M.
*Theory of numbers. 353
Stewart, C. A.
Fourier expansions. 464
Stewart, F. M. See Gale, D.
Stewartson, K.
Linearized potential theory of unsteady supersonic motion. II. 426
Spherical source in rotating fluid. 1027
Flow between rotating coaxial disks. 1030
Flow downstream of separation. 1031
Ellipsoid in a rotating fluid. I. 1138
Stiefel, E.
Cauchy-Riemann equations in higher dimensions. 38
Group characters and boundary-value problems. 502
Stippes, M.
*Large deflections of rectangular plates. 1037
Stippes, M., and Hausrath, A. H.
Large deflections of plates. 222
Stocker, P. M.
Addition of heat to gas flow. 332
Stöhr, A.
Integralartiger Grenzübergang bei Kettenbrüchen. 24
Differentialgleichungen eines dynamischen Weltmodells. II. 277
Kettenbruchintegrale. 855
Stoilow, S.
Fonctions analytiques multiformes. 1076
*Transformations intérieures des variétés à trois dimensions. 1109
Stojaković, M.
Déterminants des matrices rectangulaires. 443
Determinanten rechteckiger Matrizen. 443
Matrices quasi-inverses et quasi-unités. 1055
Stojanović, R. D.
Movement of a rigid body. 324
Stokalo, I. Z.
Fundamental formula of the symbolic method. 169
Works of Ostrogradskiĭ in mathematical physics. 833
Stokman, V. B.
Circulation in elliptical sea. 1034
Flow in closed sea of elongated form. 1035
Stoll, R. R.
*Linear algebra and matrix theory. 442
Stoll, W.
Integrale auf komplexen Mannigfaltigkeiten. 550
Ganze Funktionen endlicher Ordnung. 970
Stolt, B.
Diophantine equation $u^2-Dv^2=\pm 4N$. I, II. 247, 354
Stone, A. H.
Infinitely multicoherent spaces. 489
Corrections: "Supersonic flow past yawing cone, II." 511
Stone, M. H.
Foundations of harmonic analysis. I, II. 17, 465
Unbounded operators in Hilbert space. 565
Stone, W. M.
Newton's method with cubic convergence. 800
Stoppelli, F.
Principio dell' effetto giroscopico. 100
Fenomeni giroscopici. 421
Storchi, E.
Integrazione delle equazioni di Codazzi. 208
Espressione generale di π in somme di arcotangenti. 411
Piccole oscillazioni dell'acqua. 423
Statica delle membrane. 1035
Storer, J. E. See Keilson, J.
Šraĭh, S. Ya.
Alekseĭ Nikolaevič Krylov, his life and works. 1051
Straneo, P.
Obituary: C. Severini. 344
Straszewicz, S.
Directions singulières par rapport à un ensemble de points. 854
Straus, E. G. (Cf. Motzkin, T. S.)
Functions periodic modulo each of a sequence of integers. 21
Straus, E. G., and Valentine, F. A.
Finite-dimensional convex sets. 75
Strebel, K.
Kreisnormierungsproblem der konformen Abbildung. 549
Konforme Abbildung von Gebieten unendlich hohen Zusammenhangs. I. 1076
Stringer, J. B. See Wilkes, M. V.
Ströher, W.
Poincarésches Modell der hyperbolischen Geometrie. 399
Linienelement sechster Ordnung. 685
Projektive Differentialgeometrie ebener Kurven. 902
Strubecker, K.
Äquiforme Geometrie der isotropen Ebene. 405
Kinematik, Liesche Kreisgeometrie und Geraden-Kugel-Transformation. 684
Struble, R. A.
Almost periodic functions on groups. 846
Stubban, J. O. (Cf. Brun, V.)
Courbes algébriques planes. 310
Stümke, H.
Isotherme Atmosphäre. 332
Stumpff, K.
Lagrangesche partikuläre Lösungen des Dreikörperproblems. 324
Entwicklungssätze in punktmechanischen Problemen. 415
Sturrock, P. A.
Electron beams in electromagnetic fields. 432
Stykan, A. B.
Graphical methods of mathematical analysis. 800
Graphical computation of Stieltjes integrals. 800
Succi, F.
Funzionali analitici invarianti. 57
Suchy, K.
Übergang von der Wellenoptik zur Strahlenoptik. I. 821
Suetin, P. K.
Faber polynomials for regions with nonanalytic boundaries. 740
Sugar, A. C. See McKinsey, J. C. C.
Sugawara, M. (Cf. Inagaki, T.)
Continuous vector fields over spheres. 397
Metrizability condition. 571
Sugiyama, H.
Asymptotic behavior of $\sum p_m^2$. I. 993
Suguri, T.
Unitary K_n-connected spaces. I, II. 86, 1017
Invariants in the geometry of paths. I, II, III. 409, 902
Gauss and Codazzi equations. 1017
Sukhatme, B. V.
Probability distributions arising from points on a line. 59

Sukhatme, P. V., and Narain, R. D.
Sampling with replacement. 390
Sukhatme, P. V., and Seth, G. R.
Non-sampling errors in surveys. 390
Sul'din, A. V.
Linear representations of Lie algebras. 531
Šul'gin, M. F.
Dynamical equations of Čaplygin. 100
Integrals of ordinary differential equations. 873
Šul'man, T. A.
Triply conjugate systems of surfaces. 316
Sumner, D. B.
Convolution transform admitting inversion formula of integro-differential type. 747
Šumyagskiĭ, B. M.
*Tables for the solution of cubic equations by the method of bases. 91
Sundaresan, M. K. See Majumdar, R. C.
Sundström, M.
Statistical problems in servomechanisms. 570
Sunouchi, G.
Convergence criteria for Fourier series. 552
Mathematical publications by M. Fujiwara. 832
Sunouchi, G., and Tsuchikura, T.
Absolute regularity for convergent integrals. 551
Sunouchi, G., and Yano, S.
Strong summability of Fourier series. 41
Convergence and summability of orthogonal series. 268
Sunouchi, H.
Rings of operators. I, II. 385
Sunyer i Balaguer, F.
Substitution d'une valeur exceptionnelle par une propriété lacunaire. 31
Entire functions represented by Dirichlet series. 738
Directions de Borel-Valiron. 1074
Supino, G.
Teoremi di Rayleigh. 506
Suppes, P. See McKinsey, J. C. C.
Suprunenko, D.
Soluble groups of matrices. 14
Irreducible nilpotent matrix groups. 447
Šura-Bura, M. R.
Numerical integration of differential equations. 413
Surányi, J.
Reduction theory of the decision problem. V. 344
*Classes finies d'ensembles. 1070
Surinov, Yu. A.
Functional equations of heat radiation. 230
Šurova, K. E.
Variation of Poincaré's equations. 808
Su-Shu Huang. See Huang.
Suškevič. A. K.
Linear algebra of infinite order. 239
Algebra in Russia in 19th and 20th centuries. 523
Süss, W.
Kennzeichnende Eigenschaft des Ellipsoids. 679
Kennzeichnungen der Kugeln und Affinsphären. 789
Sutor, J.
Auswertung und Triangulation von Senkrechtaufnahmen flachen Geländes. 589
Suura, H., Mimura, Y., and Kimura, T.
Analytic behaviour of Dyson transformation function. 339
Šuvalova, R. Z.
Overconvergence of a sequence of polynomials. 164
Suzuki, J.
Metrization and completion of a space with respect to a uniformity. 69
Suzuki, T.
Aberrations of a lens system. 337
Sveklo, V. A.
Diffraction problem. 112
Svenonius, P., and Waller, I.
Scattering of radiation. 1046
Sverdrup, E.
Continuous function of random variables. 187
Life assurance mathematics. 774
Statistical inference. 997
Svešnikov, A. G.
Principle of limiting absorption for metaharmonic equation. 644
Work of M. V. Ostrogradskiĭ. 833
Svirskiĭ, I. V.
Number of roots in right half-plane for functions of form $F(e^z, z)$. 150
Critical forces for longitudinal bending. 1020
Accuracy of variational methods. 1129
Accuracy of Galerkin's method. 1129
Swerling, P. See Reich, E.
Swift, J. D.
N-valued propositional calculi. 440
Swinford, L. H.
*Approximate method for conformal mapping. 909
Swinnerton-Dyer, H. P. F. (Cf. Barnes, E. S.)
Extremal lattices of convex bodies. 540
Sydler, J.-P.
Espaces osculateurs des courbes normales. 85
Équivalence des polyèdres euclidiens. 309
Symon, K. R., and Poplawsky, R. P.
Electronic differential analyzer. 504
Synge, J. L. (Cf. O'Brien, S).
Gravitational field of a finite sphere. 99
Instability produced by rotation. 100
Vitesse de phase et de groupe en optique relativiste. 214
Expansion and vorticity of a viscous fluid. 273
Bounding formula for integrals. 693
Hypercircle method for plane problems. 801
Electrical networks. 824
Quantization in relativistic two-body problem. 1045
Acceleration in Michelson-Morley experiment. 1135
v. Szalay, L.
Wärmeleitungsdifferentialgleichung. 758
Szász, G.
Semi-modular lattices of infinite length. 612
Dense and semi-complemented lattices. 838
Szász, O. (Cf. Lukacs, E.)
Gibbs phenomenon for linear transforms. 370
Closed sets of rational functions. 976
Szász, P.
Hyperbolische Trigonometrie. I, II. 197, 1007
Parallelwinkel in der hyperbolischen Ebene. 675
Szebehely, V. G.
Three bodies in a plane. 589
Frequency parameter in unsteady flows. 810
Szegö, G. (Cf. Edrei, A.)
*Contributions of Hungarian school to conformal mapping. 549
Hermitian forms associated with Fourier series. 553
*Conformal mapping related to torsional rigidity. 860
Remark on preceding paper of Loewner. 1085
Szelągowski, F.
Force concentrée sur une plaque. 601
Szele, T. (Cf. Fuchs, L.; Kertész, A.)
Direct sums of cyclic groups. 946
New results in abstract algebra. 121
Analogon der Körpertheorie für abelsche Gruppen. 132
Groups with atomic layers. 351
Decompositions of Abelian groups. 721
Non-countable abelian p-groups. 946
*Zerfällungssatz für radikalfreie Ringe. 1056
Szele, T., and Szendrei, J.
Abelian groups with commutative endomorphism ring. 532

Szélpál, I.
Ordnung n-stufig nichtkommutativer Gruppen. 843
Szendrei, J. See Szele, T.
Szép, J. (Cf. Rédei, L.)
Factorisable, not simple groups. 13
Factorisable simple groups. 13
Faktorisierbare Gruppen. 13
Endliche einfache Gruppen. 13
Einfache Gruppen. 722
Szép, J., and Rédei, L.
Factorisable groups. 13
Sze-Tsen Hu. See Hu.
Szmydt, Z.
Théorème de Knebelman. 1125
Sz.-Nagy, B. (Cf. Riesz, F.)
New results in analysis. 121
Spectral problem of Atkinson. 478
Stability of the index of unbounded linear transformations. 564
Ungleichung von H. Bohr. 976
*Convergence des séries de polynomes orthogonaux. 1083
Moment problem for self-adjoint operators. 1096
Sz.-Nagy, Gy.
Kritische Punkte rationaler Funktionen. 151
Polynome, deren Nullstellen auf einem Kreis liegen. 465
Mittelkante, Mittelebene, Mittelpunkt. 784
Wertverteilung bei Polynomen. 1082
Kurve vierter Ordnung. 1116

Taam, Choy-Tak.
Oscillation theorems. 50
Non-oscillatory differential equations. 557
Differential equation in the complex domain. 646
Non-oscillation and comparison theorems of differential equations. 873
Linear differential equations with small perturbations. 873
Tachibana, S.
Non-Euclidean connexions of Einstein spaces. 318
Logarithmic spirals in Riemann spaces. 408
Tagamlickiĭ, Ya. A.
Theorem of Minkowski. 184
Newton interpolation series. 542
Minkowskischer Stützebenensatz für Hilbertsche Räume. 989
Tagamlitzki, Y. See Tagamlickiĭ, Ya. A.
Taguti, G.
Tables for Polya-Eggenberger's distribution function. 775
Taĭmanov, A. D.
Quasi-components of disconnected sets. II. 191
Continuous mappings of topological spaces. 395
Multiple separability of closed sets. 782
Takabayasi, T.
Formulation of quantum mechanics. 705
Takács, L.
Probabilistic treatment of simultaneous stoppage of machines. 62
Happenings with arbitrary distribution law of duration. 388
*Wahrscheinlichkeitstheoretische Behandlung von Koinzidenz-Erscheinungen. 1101
Takagi, T.
*Algebraic number theory. Generalities and class field theory. 953
Takahashi, S.
Duality theorem for locally compact groups. 846
Takahashi, T.
Generalized spherical harmonics. 373
Takahashi, Y., and Umezawa, H.
Self-stress. 709
Takano, K.
Paths in generalized projective space. 208
Geodesic torsions and curvatures. 498
Homogeneous contact transformations. 1122
Takashima, H.
Statistical inference for random processes. 776
Takasu, T.
Sphere-geometrical unitary field theories. 806
Takeda, K.
Ruled surfaces of rectilinear congruence. 792
Takeda, Z. (Cf. Misonou, Y.; Nakamura, M.)
Fourier-Stieltjes integral. 371
Theorem of R. Pallu de la Barrière. 991
Takeda, Z., and Turumaru, T.
Property "Position p'." 990
Takeno, H. (Cf. Ueno, Y.)
Spherically symmetric space-times. 417
Relativistic theory of rotating disk. 417
Takenouchi, O.
Structure of maximal Hilbert algebras. 290
Maximal Hilbert algebras. 290
Takeuchi, K.
Free modular lattices. 529
Takeuti, G.
Metamathematical theorem on ordinal numbers. 714
Takizawa, S.
Generalized spaces which admit given holonomy groups. 319
Talbot, A.
Roots of determinantal equations. 458
Tallqvist, H.
Potenzsummen der ganzen Zahlen. 536
Produktsummen der ganzen Zahlen. 536
Tangentenlängen zu zwei Kreisen. 574
Einige geometrische Örter. 574
Örter gleicher Gesichtswinkel. 574
Auf zwei Kreise sich beziehende Probleme. 574
Einige auf eine Gerade und einen Kreis sich beziehende Aufgaben. 574
Geometrische Örter bei einem Kegelschnitt. 575
Multiplikations- und Divisions-Verfahren. 587
Divisibilität der Polynome. 640
Reflexions- und Refraktionsprobleme. 822
Tamada, K.
Detachment of shock wave. 921
Tamagawa, T. (Cf. Iwasawa, K.)
Functional equation of generalized L-function. 951
Tamari, D.
Monoïdes préordonnés et chaînes de Malcev. 532
Embedding of Birkhoff-Witt rings. 840
Tambs Lyche, R. (Cf. Brun, V.)
*History of mathematics in Norway. 523
Tamm, I. E. See Ginsburg, V. L.
Tammi, O.
Coefficients of schlicht and related functions. I, II. 366, 740
Tamura, J.
Riemann surfaces and analytic functions. 743
Tamura, T.
Semigroup operations defined in a set. 616
Convexity of connected sets. 1093
Tanaka, C.
Note on Dirichlet series. III, IX, IV. 161, 745
Note on Laplace-transforms. VIII, IX, X, XI, XII. 554
Tanaka, H. See Tokuoka, Z.
Tandai, K. See Kawaguchi, A.
Tandori, K.
Cesàrosche Summierbarkeit der orthogonalen Reihen. 268
Summierbarkeit der orthogonalen Polynomreihen. 467
Fourierreihen stetiger Funktionen. 745
Tanikawa, Y.
Super-quantization of quantized field. 436
Tannaka, T.
*The principle of duality. 245
Tanner, J. C.
Interference between queues. 1102

Tanzi Cattabianchi, L.
Equazioni generalizzanti l'equazione di Bessel. 477
Tárczy-Hornoch, A.
Normalschnitte auf dem Ellipsoid. 1114
Targ, S. M.
*Fundamental problems of the theory of laminar flow. 327
Targonszky, G. I.
Darstellung von Funktionen durch Kettenreihen. 736
Tarski, A. See Fell, J. M. G.
Tartakovskiĭ, V. A.
Deformation of surfaces. 687
Tashiro, Y.
Dérivée de Lie d'un être géométrique. 499
Tasny-Tschiassny, L., and Doe, A. G.
Solution of polynomial equations with an electrolytic tank. 210
Tate, J. (Cf. Lang, S.)
Cohomology groups of class field theory. 252
Tate, R. F.
Inequality of normal distribution. 995
Taton, R.
Mathématiques selon l'Encyclopédie. 831
*La géométrie projective en France de Desargues à Poncelet. 1050
Tatsumi, T.
Stability of laminar parabolic flow. 217
Stability of laminar inlet-flow. I, II. 424
Stability of plane Poiseuille flow. 813
Tatuzawa, T.
Zeros of Dirichlet's L-functions. 249
Theorem of Siegel. 452
Taub, A. H.
*Sampling method for equations of compressible flow. 93
Taunt, D. R., and Ward, G. N.
Wings of finite aspect ratio. 109
Taussky-Todd, O. (Cf. Motzkin, T. S.)
A. Scholz zum Gedächtnis. 122
Taussky, O., and Todd, J.
Systems of equations, matrices and determinants. 715
Tautz, G. L.
Umkehrungsproblem bei elliptischen Differentialgleichungen. I, II, III. 876, 877
Taylor, G.
Action of waving cylindrical tails. 104
Formation of a vortex ring. 593
Taylor, H. E.
Mapping function of doubly-connected Riemann surfaces. 744
Taylor, N. W.
Relativistic electromagnetic equations. I, II. 806, 915
Taylor, S. J. (Cf. Eggleston, H. G.)
Cartesian product sets. 147
Measure of Brownian paths in n-space. 663
Volume of topological cube. 856
Taylor, W. F.
Distance functions and asymptotically normal estimates. 996
Tchernikow, S. N. See Černikov, S. N.
Tedone, G.
Configurazione dei fronti d'onda epicentrali. 114
Tekinalp, B.
Conjugate beam method for space rods. 1038
Teichmann, T., and Wigner, E. P.
Electromagnetic field expansions. 823
Teichroew, D.
Continued fractions in high speed computing. 209
Teissier, M.
Algèbre d'un demi-groupe. I, II. 10
Propriétés des idéaux dans les demi-groupes. 445
Demi-groupes avec quotient d'un côté. 721
Teissier du Cros, F.
Notions "champ réel autonome" et "cellule d'harmonicité." 375
Teixeira, J. Gaspar. See Gaspar Teixeira, J.
Teixidor, J.
Plane hexagonal and octahedral four-webs of planes. 406
Tellegen, B. D. H.
General network theorem. 434
Temlyakov, A. A.
Analytic continuation of functions of two variables. 550
Temperley, H. N. V.
Statistical mechanics and partition of numbers. II. 712
Temple, G.
Generalized functions. 989
Convergence généralisée et fonctions généralisées. 1071
Ten Doesschate, G.
*Rolduc as medieval vanguard of mathematics, physics and medicine in the Netherlands. 1
Tenca, L.
Corrispondenza fra T. Ceva e G. Grandi. 832
Guido Grandi e calcolo infinitesimale. 1050
Determinanti circolanti. 1054
Terada, F.
Principal genus theorem on abelian extensions. 729
Terasaka, H. (Cf. Homma, T.)
Cartesian product of compact spaces. 489
ter Haar, D. See Haar.
Ter-Martirosyan, K. A.
Excitation of nuclei. 340
Terpstra, T. J.
Kendall's test against trend. 64
Confidence interval for probability that variable exceeds a given value. 391
Non-parametric k sample test. 888
Terracini, A.
Aspetti proiettivi delle equazioni differenziali. 378
Linee principali di alcune classi di superficie. 498
Obituary: G. Fano. 524
Determinazione di una superficie di S_6. 686
*I quaderni di Corrado Segre. 1051
Terry, M. E.
Some rank order tests. 190
Tetervin, N., and Levine, D. A.
Stability of laminar boundary layer. 217
Tetervin, N., and Lin, Chia Chiao.
Integral form of the boundary-layer equation. 216
Tharrats Vidal, J. M.ª.
Pencils of transformations. 1121
Thawani, V. D. (Cf. Mahajani, G. S.)
Symmetrical confounded factorial designs. 778
Thébault, V.
Area of a triangle. 398
Point de Monge d'un tétraèdre. 493
Plans associés à un tétraèdre. 574
Skew quadrilateral. 574
Géométrie du triangle et du tétraèdre. 674
Cevians of a triangle. 674
Quadrilatère convexe inscriptible. 674
Questions d'arithmétique. 724
Géométrie du tétraèdre. 784
Note on number theory. 846
Curiosités arithmétiques. 949
Cercles et sphères particuliers de Tücker. 1007
Thellung, A. See Kronig, R.
Thews, G.
Physiologische Diffusionsprozesse. 759
Thielman, H. P.
Pathological functions. 628
Types of functions. 628
Thierrin, G.
Demi-groupes inversés. 12
Classes de demi-groupes. 616
Equivalences dans les demi-groupes. I, II. 616, 842
Equivalence réversible généralisée. 944
Sous-groupoïdes consistants d'un demi-groupe abélien. 944

Thimm, W.
Singuläre Bildpunkte einer meromorphen Abbildung. 971
Deformationen. 1108
Thirring, W. E.
Nichtlineare Terme in Meson-Gleichungen. 339
Divergence of perturbation theory. 708
Thiruvenkatachar, V. R. See Mahajani, G. S.
Thiruvenkatachar, V. R., and Nanjundiah, T. S.
Bessel functions and orthogonal polynomials. 44
Thiruvenkatachar, V. R., and Ramakrishna, B. S.
Radial and axial heat flow in cylinders. 283
Thiry, Y.
Généralisation du problème de Schwarzschild. 591
Thom, A., and Klanfer, L.
Arithmetical solutions of field problems. 922
Thom, R.
*Théorie intrinsèque des puissances de Steenrod. 491
*Propriétés des variétés bords. 492
Espaces fibrés en sphères et carrés de Steenrod. 1004
Problème de Steenrod. 1005
Variétés différentiables. I, II. 1005
Variétés différentiables cobordantes. 1112
Thomas, J. M.
Linear differential equation. 558
Thomas, Johannes.
Lineare Differentialgleichungssysteme. 981
Thomas, L. H. (Cf. Sheldon, J.; Zondek, B.)
Stability of plane Poiseuille flow. 697
Thomas, T. Y.
Von Mises plasticity equations. 113
*Stability of shock waves. 699
Theory of plasticity. 820
Separation of supersonic flow from curved profiles. 921
Inclination of plastic slip bands. I, II. 1040, 1041
Thomescheit, A.
Berechnung der optischen Bildfehler. 517
Lichtverteilung in geometrisch-optischen Zerstreuungsfiguren. 1148
Thompson, A. J. (Cf. Bickley, W. G.)
*Logarithmetica Brittannica. Part II. 798
Thompson, D. J. See Horvitz, D. G.
Thompson, G. L.
*Signaling strategies in n-person games. 999
*Bridge and signaling. 999
Thompson, J.
Method for finding primes. 621
Thompson, L. D.
Converse of theorem on integral means. 957
Thompson, P. D.
Disturbances in atmospheric flow. 815
Thomsen, J. S. See Berlin, T. H.
Thomson, L. M. Milne. See Milne Thomson.
Thomson, R. See Bergmann, P. G.
Thomson, W. T.
*Pressure waves in liquid filled tubes. 1147
Thorkelsson, T.
Serial relations. II, III, IV, V. 40
Serial relations and symbolic calculus. 40
Thorn, R. J., and Simpson, O. C.
Inductively heated cylinders. 758
Thorndike, L.
Bianchini in Italian manuscripts. 832
Thorne, C. J. See Deverall, L. I.; Fletcher, H. J.
Thornhill, C. K.
Numerical method of characteristics for hyperbolic problems. 588
Thosar, Yeshwant V.
Operational calculus. 870
Thrall, R. M.
A combinatorial problem. 234
Thron, W. J.
*Theory of functions of a complex variable. 857
Thullen, P.
*Analytic functions of several complex variables. 550
Thüring, B.
Librationsbahnen der Trojaner. 415
Thüring, R.
Der Holditchsche Satz. 679
Thurston, H. A.
Continued products. 238
Structure of an operation. 239
Equivalences and mappings. 241
Noncommuting quasigroup congruences. 241
Thwaites, B.
Momentum equation in laminar boundary-layer flow. 105
Flow past a flat plate with suction. 812
Tiago de Oliveira, J.
Inverse binomial sampling. 995
Proportions in multinomial population. 995
Tibiletti, C.
Teorema di Noether. 264
Piani con la stessa curva di diramazione. 402
Teorema fondamentale della geometria algebrica. 790
Tierney, J. A.
Transonic flow of polytropic gas. 699
Tietz, H. (Cf. Iglisch, R.)
Verfahren zur Berechnung von bestimmten Integralen. 322
Funktionen auf geschlossenen Riemannschen Flächen. 859
Tietze, H.
Klasse von Polynomen. 466
Partitioning linear arrangements of natural numbers. 852
Tiffen, R.
Uniqueness theorems of two-dimensional elasticity theory. 110
Boundary-value problems of elastic half-plane. 333
Solution of elastic problems of conformal mapping. 333
Tifford, A. N.
*Exact thermal solution in laminar viscous flow. 1031
Tihonov, A. N.
Boundary conditions containing derivatives of order higher than order of the equation. 377
Differential equations containing small parameters. 1085
Tikson, M.
Tabulation of integral in theory of cooperative phenomena. 1125
Timan, A. F.
Approximation by trigonometric polynomials. 40
Approximation of functions. 40
Summation of Fourier series. 867
Entire functions of finite degree. 966
Timman, R.
Oscillating aerofoil between walls. 595
Timman, R., et Lemaigre, B.
Ligne portante de forme arbitraire. 594
Timoshenko, S. P.
*History of strength of materials. 1050
Timpe, A.
Achsensymmetrische Torsion. 111
Tims, S. R.
Paper by M. Nassif. 32
Tinbergen, J.
Balance of payments equilibrium. 301
Ting, Lu.
Shock strength in nonsteady flow. 108
Ting, L., and Ludloff, H. F.
Aerodynamics of blasts. 108
Tintner, G.
Variate Difference Methode für Regression und Multikolinearität. 297
Tippett, L. H. C.
*The methods of statistics. 296

Titchmarsh, E. C.
Convergence of eigenfunction expansions. 50
Obituary: H. Bohr. 524
Tits, J.
Groupes doublement transitifs continus. 447
Plan projectif des octaves et groupes de Lie exceptionnels. 947
Titus, C. J. See Piranian, G.
Titus, C. J., and Young, G. S.
Jacobian condition for interiority. 192
Tobin, J., and Houthakker, H. S.
Effects of rationing. 891
Tod, J. H. Hunter-. See Hunter-Tod, J. H.
Toda, H.
Homotopy groups of spheres. I, II. 572
Todd, J. See Taussky, O.
Todd, J. A. (Cf. Coxeter, H. S. M.)
Invariants of canonical system of a V_4. 1011
Todd, O. Taussky-. See Taussky-Todd, O.
Togliatti, E. G.
Geometria intrinseca di un gruppo continuo. 685
Superficie algebriche ed equazioni di Laplace. 1117
Tôgô, S.
Semi-simple sub-nuclei in Lie groups. 18
Tokarev, P. I.
Second variation in variational problem of Lagrange. 1124
Tôki, Y.
Classification of open Riemann surfaces. 864
Tokuoka, Z., and Tanaka, H.
Particle and wave formalism of meson. 709
Tolba, S. E.
Summability of Taylor series. 369
Tolhoek, H. A., and de Groot, S. R.
First law of thermodynamics. 710
Tollmien, W.
Fehlerabschätzung beim Adamsschen Interpolationsverfahren. 1129
Tomić, B.
Polynomes de Bernoulli. 269
Tomić, M.
Positivität der trigonometrischen Polynome. 266
Sommes trigonométriques à coefficients monotones. 267
Tomita, M.
Measure theory of complete Boolean algebras. 734
Tomonaga, Y.
Betti numbers and differential forms. 903
Tomović, R. (Cf. Mitrović, D.)
Electrical differential analyzer. 211
Tong, Hing.
Normal and perfectly normal spaces. 304
Tonnelat, M.-A.
Théorie unitaire des champs. 213
Tonolo, A.
Problema di Darboux della meccanica dei mezzi continui. 700
Tonowoka, K.
Generalization of Cartan space. 499
Manifold of a surface-elements of higher order. 1017
Tonyan, V. A.
Approximation of continuous functions. I, II. 548
Tootill, G. C. See Williams, F. C.
Toraldo di Francia, G. (Cf. Ronchi, L.)
*Onde elettromagnetiche. 1149
Toranzos, F. I.
Bell-shaped frequency curve. 189
Torgerson, W. S.
Multidimensional scaling. I. 889
Tornehave, H.
Analytic functions of several variables. I, II. 970
Tornheim, L.
Normed fields over real and complex fields. 131
Definition of Clifford algebras. 720
Sylvester-Franke theorem. 939
Tornier, E., und Domizlaff, H.
*Theorie der Versuchsvorschriften der Wahrscheinlichkeitsrechnung. 886
Torre, C.
Charakteristiken und eine Berührungstransformation. 1143
Torres, G.
Alexander polynomial. 574
Tortrat, A.
Lois convexes de probabilité. 294
Toscano, L.
Relazione di ricorrenza triangolare. 21
Potenza di una matrice del terzo ordine. 237
Polinomi di Hermite. 269
Funzioni generatrici di polinomi di Laguerre. 269
Funzioni ipergeometriche a due variabili. 372
Géométrie du triangle. 398
Points remarquables d'un triangle. I, II. 895
Triangles podaires orthogonaux. 895
Tosi, A.
Formule di Plücker. 312
Toso, A. Scorza. See Scorza Toso, A.
Tosques, E.
Sistema lineare di ipersuperficie cubiche. 402
Tóth, L. Fejes. See Fejes Tóth.
Touchard, J.
Prime numbers and perfect numbers. 1063
Toupin, R. A.
Variational principle for mesh-type analysis of a mechanical system. 421
Touschek, B. F. See Burton, W. K.
Townsend, B. B. See Craig, H. V.
Tôyama, H.
Determinant equations. 151
Haar measure of some groups. 352
Trainor, L. See Corinaldesi, E.
Tranter, C. J.
Heat conduction in the region bounded internally by an elliptical cylinder. 51
Temperature rise behind surface defect. 750
Travers, S.
Gradients dans ondes de choc. 425
Trefftz, E. (Cf. Lüst, R.)
Rotierende Gasmasse. 95
Trent, H. M.
Formulation of the laws of mechanics. 421
Trevisan, G.
Equivalenza archimedea relativa alle gruppo-strutture. 19
Questione relativa alle strutture distributive. 346
Tricomi, F. G.
Funzione gamma incompleta e somma di vettori causali. 59
Entire function related to a noncontinuable power series. 259
*Lezioni sulle funzioni ipergeometriche confluenti. 269
Funzioni ipergeometriche confluenti. 270
Equazione di Laguerre. 466
Polynomials related to those of Laguerre. 466
*Funzioni ellittiche. 468
Distribuzione statistica dei batteri. 570
Funzione introdotta dalla batteriologia. 632
Trofimov, P. I.
Noninvariant conjugate subgroups and properties of a finite group. 445
Troickiĭ, V. A.
Automatic regulation. 753
Trösch, A.
Stabilitätsprobleme bei tordierten Stäben. 336
Troskolański, A. T.
*Technical hydromechanics. Vol. I. 695
Trucco, E.
Ignition in a random net. 570
Truckenbrodt, E. (Cf. Schlichting, H.)
Geschwindigkeitspotential der tragenden Fläche. 1138

Truesdell, C. A.
Obituary: P. F. Neményi. 122
886 Viscosity of fluids according to kinetic theory. 231
Vorticity averages. 273
1143 Champs vectoriels qui s'annulent sur une frontière fermée. I, II. 273
574 Green's transformation. 361
Curved shocks in steady flow. 511
294 Two measures of vorticity. 1026
Tschiassny, L. Tasny-. See Tasny-Tschiassny, L.
21 Tse-Pei Chiang. See Chiang.
237 Tsien, H. S.
269 Influence of flame front on flow field. 332
269 Similarity laws for stressing heated wings. 701
372 Tsuboi, T. See Ozaki, S.
398 Tsuboko, M.
895 Projective connection associated with surface in R_3. 794
895 R_2 with symmetric projective connection. 902
Tsuchikura, T. (Cf. Sunouchi, G.)
312 Theorem of Erdös and problem of Zalcwasser. 868
Tsuji, H.
Unsteady laminar boundary-layer equations. 919
402 Tsuji, K. See Orihara, M.
Tsuji, M.
Derivative of a meromorphic function. 34
1063 Uniformization of an algebraic function. 157
Potential function on Riemann surface. 168
Wiman's theorem on integral functions. 259
421 Nevanlinna's second fundamental theorem. 364
Continuation of a Riemann surface. 462
Extension of Bloch's theorem. 549
Geometry of numbers for Fuchsian groups. 623
151 Fundamental theorems in potential theory. 644
352 Fuchsian groups. I, II. 742, 968
F. Riesz' theorem on subharmonic functions. 749
Ahlfors' theorems on covering surfaces. 969
Tucker, M. J.
51 Electronic analogue integration and differentiation. 504
750 Tuganov, N. G.
Congruence of Dupin indicatrices. 792
425 Tugue, T. See Kondô, M.
Tulegenov, B.
95 Stability of solutions of differential equations. 752
Tumarkin, G. C.
421 Approximation of complex-valued functions. 154
Tumašev, G. G.
19 Channels and nozzles with given velocity distribution. I, II. 426
346
Tummers, J. H.
59 Une certaine transformation. 494
259 Tungl, E. See Girkmann, K.
269 Turán, P. (Cf. Egerváry, J.; Rényi, A.)
270 Remainder-term of prime-number formula. II. 137
466 A method in analysis. 258
466 Lacunary power-series. 738
468 Trigonometrical sum. 1080
570 *Algèbre fonctionnelle. 1082
632 Tureckiĭ, A. H.
Extremal property of trigonometric polynomials. 552
Turing, A. M.
445 Riemann zeta-function. 1126
Turnbull, H. W.
753 *Bi-centenary of the death of Colin Maclaurin. 344
Obituary: J. Williamson. 344
336 Turquette, A. R. See Rosser, J. B.
Turri, T.
695 Trasformazioni involutorie. 77
Trasformazioni birazionali del piano. 77
570 Involuzioni di secondo ordine. 77
Numero dei circuiti delle curve. 77
1138 Serie caratteristica di una rete di cubiche. 77

Turri, T. (Continued)
Trasformazioni antibirazionali involutorie. 78
Sostituzioni unimodular involutorie. 314
Quartiche di diramazione. 578
Rappresentazione piana di involuzioni. 578
Trasformazione antibirazionale involutoria del piano. 578
Turrittin, H. L. Asymptotic expansions of solutions of differential equations. 377
Turski, S. See Nowacki, W.
Turumaru, T. (Cf. Nakamura, M.; Takeda, Z.)
Direct-product of operator algebras. I. 991
Tutte, W. T.
Factors of graphs. 67
Tweedie, M. C. K.
Sequentially sampled data on discrete distribution. 777
Twersky, V.
Multiple scattering theory of the finite grating. 518
Multiple scattering of radiation. II. 1149
Twiss, R. Q.
Propagation in electron-ion streams. 604
Tyabji, S. F. B.
Dirac's new electromagnetic theory. 116
Tyler, C. M., Jr., and Christiano, J. G.
Airy integral analysis of beam columns. 335
Tzénoff, I. See Cenov.

Uberoi, M. S.
Velocity correlations and pressure fluctuations in turbulence. 813
Uberoi, M. S., and Kovasznay, L. S. G.
Mapping and measurement of random fields. 486
Udagawa, M.
Positive sums of random variables. 294
Uehara, H.
Relatively free homotopy. 73
Generalization of the Abe groups. 73
Homotopy type problems. I, II. 674
Ueno, Y.
Special theory of relativity. 1023
Ueno, Y., and Takeno, H.
Equivalent observers. 506
Ufford, D. See Luke, Y. L.
Uflyand, Ya. S.
Bending of a thin elastic plate. 516
Uhlenbeck, G. E. See Harary, F.
Uhler, H. S.
History of Mersenne numbers. 343
Approximations for $\sqrt[n]{2}$, $\sqrt[n]{3}$, $\sqrt[n]{4}$, and $\sqrt[n]{9}$. 411
Table of denary logarithms. 1126
Ukegawa, T. See Asano, K.
Ulam, S. M. See Hyers, D. H.; Metropolis, N.
Ulčar, J.
Quadratische Korrespondenz zwischen Geraden. 307
Affine Einteilung der Flächen zweiter Ordnung. 901
Ullemar, L.
Automorphe Funktionen mit beschränktem Dirichletintegral. 470
Ullman, J. L.
Theorem of Frobenius. 878
Ullman, R. See Hermans, J. J.
Umeda, K. See Imai, I.
Umegaki, H. (Cf. Nakamura, M.)
Representation theorems in an operator algebra. II, III. 58, 59
Operator algebra of finite class. 991
Umezawa, H. (Cf. Kamefuchi, S.; Sakata, S.; Takahashi, Y.)
Interactions of elementary particles. II. 709
Umezawa, H., and Kawabe, R.
Theory of elementary particles. I. 1046

Umezawa, T.
Multivalent functions with assigned zeros. 260
Analytic functions convex in one direction. 461
Analytic functions star-like in one direction. 859
Multivalency of analytic functions. 859
Unger, H.
Auflösung umfangreicher linearer Gleichungssysteme. 92
Orthogonalisierung von Matrizen. 692
Unkelbach, H.
Konforme Abbildung echter Polygone. 462
Approximation schlichter konformer Abbildungen. 861
Unno, W.
Radiation pressure in planetary nebula. I. 96
Uno, T.
Curves defined by differential equations. 377
Uno, T., and Yokomi, R.
Modes of appearance of limit cycles. 377
Ura, T.
Transformations canoniques exceptionnelles. 917
Uranisi, H.
Gram-Charlier type A population. 63
Statistical inference in finite populations. 888
Urazbaev, B. M.
p-adic expansions of the roots of two-term equations. 237
Urban, P. (Cf. Ledinegg, E.)
W.K.B.-Verfahren. 503
Urban, P., und Schwarzl, F.
Teilchen mit höherem Spin. 118
Urbański, W. S.
Trajectoires des projectiles. 695
Urcelay, J. M.
Rhomboidal nomograms. 211
Urciuolo, V.
General theory of number. 627
Ursell, F.
Edge waves on a sloping beach. 326
Mass transport in gravity waves. 594
*Spectra in theory of gravity waves. 811
Ursell, F., and Ward, G. N.
Linearized theory of compressible flow. 218
Uryson, P. S.
*Works on topology and other fields of mathematics. 122
Uskila, L. See Ullemar, L.
Uspenskiĭ, V. A. See Dynkin, E. B.
Utumi, Y.
Primary elements of modular lattice. 838
Complemented modular lattices. 838
Utz, W. R. (Cf. Ewing, G. M.)
Scholz-Brauer problem in addition chains. 949

van der Vaart, H. R.
Content of spherical polyhedra. 1007
Vacca, M. T.
Conduzione del calore in una piastra anulare. 758
Derivate delle funzioni di Bessel. 872
Vaccaro, G.
Flessi delle ipersuperficie. 402
Vaccaro, M.
Traiettorie di un gruppo di omografie. 311
Vadnal, A.
Propriétés du double logarithme. 871
Vagner, V. V.
Partial transformations. 10
Generalized groups. 12
Geometry of hypersurface in a central affine space and calculus of variations. 1016
Local curves and conical surfaces in X_4. 1124
Vaidya, P. C.
'Newtonian' time in general relativity. 806
Radiation absorbing systems. 914
Gravitational fields of spherical symmetry. 914
Vaĭnberg, D. V.
Plane stressed state and bending of a circular plate. 1037
Vaĭnberg, M. M.
Invariant directions of completely continuous operators. 55
Differential and gradient of functionals. 55
Variational principles for operator equations. 55
Invariant directions of product of operators. 290
Differential calculus in linear spaces. 384
Characteristic functions for nonlinear integral operators. 1092
Vaisey, G. See Southwell, R. V.
Vajda, S.
Spieltheorie und statistische Entscheidungsverfahren. 778
Quadratic forms and their discriminant matrices. 837
Val, P. Du. See Du Val.
Valensi, J. See de Possel, R.
Valensi, J., et Clarion, C.
Oscillations dans un fluide visqueux. 424
Valentine, F. A. See Motzkin, T. S.; Straus, E. G.
Val'fiš, A. Z.
Elementary solution of Pell's equation. 537
Pell's equation in imaginary quadratic fields. 537
Valiron, G.
Fonctions algebroïdes d'ordre nul. 34
Fonctions entières et équations différentielles. 376
Fonctions analytiques et équations différentielles. 546
Vallander, S. V.
Flow about a cascade of profiles. 326
Nonlinear hyperbolic partial differential equations. 878
Vallée, R.
Opérateurs d'observation. 568
Valverde, F.
Monogeneity of certain functions. 629
van Alphen, W. J. See Alphen.
Van Bouchout, V.
Réseaux de surfaces. 84
van Bueren, H. G. See Bueren.
van Dantzig, D. See Dantzig.
van den Dungen, F. H. See Dungen.
van der Blij, F. See Blij.
van der Does de Bye, J. A. W. See Does de Bye.
van der Heiden, J. A. See Heiden.
van der Kulk, W. See Kulk.
van der Vaart, H. R. See Vaart.
van de Vooren, A. I. See Vooren.
van de Vooren-van Veen, J. F. See Vooren-van Veen.
van der Waag, E. J. See Waag.
van der Waerden, B. L. See Waerden.
Vandiver, H. S.
Associative algebra and algebraic theory of numbers. I. 348
Cyclotomy and extensions of Gaussian type quadratic relations. 358
Fermat's last theorem. 725
Travaux de Dmitry Mirimanoff. 833
Van Dyke, M. D.
Practical calculation of supersonic flow. 218
Supersonic flow past bodies of revolution. 331
Impulsive motion of plate in viscous compressible fluid. 509
van Est, W. T. See Est.
van Heel, A. C. S. See Heel.
van Heemert, A. See Heemert.
Van Heijenoort, J.
Locally convex manifolds. 577
Van Hove, L. (Cf. Nijboer, B. R. A.)
Deux champs quantifiés en interaction. 117
Modèle de champ quantifié. 118
Topologie des espaces fonctionnels analytiques. 287
van IJzeren, J. See IJzeren.
van Kampen, N. G. See Kampen.
van Langendonck, T. See Langendonck.
Van Mieghem, J.
Angular momentum balance in the atmosphere. 220

Van Mieghem, J. (Continued)
Vorticity equation. 1027
Energy conversions in the atmosphere. 1034
van Rootselaar, B. See Rootselaar.
van Veen, H. J. See Veen.
van Veen, J. F. van de Vooren-. See Vooren-van Veen.
Van Vleck, J. H. See Bridgman, P. W.
Van Wieringen, J. S. See Milatz, J. M. W.
van Wijngaarden, A. See Wijngaarden.
Vaona, G. (Cf. Villa, M.)
Piani aventi due reti asintotiche di curve caratteristiche. 316
Classificazione proiettiva delle varietà quasi-asintotiche. 496
Curve di una varietà quasi-asintotica. 680
Varga, O.
Finslersche Räume skalarer und konstanter Krümmung. 499
Varga, R. S.
Strips free of zeros. 546
Varley, J. H. O. See Nabarro, F. R. N.
Varma, R. S.
Normal multivariate distribution. 293
Varnavides, P.
Minowski constant of the form $x^2 - 11y^2$. 143
Euclid's algorithm in real quadratic fields. 537
Varnum, E. C.
Polynomial determination. 640
Vasil'eva, A. B.
Differential equations containing small parameters. 1086
Vasseur, J. P.
Diffraction des ondes electromagnétiques. 822
Vaughan, D. C.
Relaxation methods. 504
Vaughan, H. E.
Well-ordered subsets and maximal members of ordered sets. 362
Vaught, R. L. See Kelley, J. L.
Vedamurti Aiyar, T. V. See Rajagopal, C. T.
van Veen, H. J.
*Introduction to nomography. 2d ed. 1130
Veen, J. F. van de Vooren-van. See Vooren-van Veen.
Vekua, I. N.
Uniqueness theorems occurring in theory of steady vibrations. 336
Poisson integral for half-plane. 555
Vekua, N. P.
Hilbert boundary problem for several unknown functions. I, II, III. 151, 763
Boundary problem on functions of a complex variable. 153
Singular integral equations. 182
Functions of a complex variable. 459
Problem of Hilbert and singular integral equations. 763
Carleman boundary problem. 968
Vel'skiĭ, G. M. Adel'son-. See Adel'son-Vel'skiĭ, G. M.
Venkata Rao, P. See Ghosh, C. S.
Venkataraman, C. S.
Modular multiplicative functions. 537
Zeros of a certain polynomial. 640
Venkov, B. A.
*Indeterminate quadratic forms. 22
Scientific diary of G. F. Voronoĭ. 954
Verbickiĭ, L. L.
Conformal Euclidean spaces of class 1. 795
Verblunsky, S.
Séries exponentielles de Cauchy. 42
Circumradius of a bounded set. 495
Vermes, P.
Rings of infinite matrices. 7
γ-matrices efficient at an isolated point. 634
Interpolation problem for integral functions. 739
Convolution of summability methods. 745
Vermeulen, R.
Dimensional analysis, units and rationalization. 821
Vernotte, P.
Sommation des séries asymptotiques. 464
Rôle de la régularité dans le calcul numérique. 800
Courbes expérimentales. 906
Verschaffelt, J. E.
Phénomènes de transport. 231
Vesentini, E.
Omografie definite da certe coppie di elementi differenziali tangenti. 407
Vest, M. L.
Cremona transformations associated with chords of a twisted cubic. 312
v. Gorup, G. See Gorup.
Vidal Abascal, E.
Fundamentals of integral geometry. 679
Concept of geometry and geometric space. 900
Vidal, J. M.ª Tharrats. See Tharrats Vidal, J. M.ª.
Vidal, R. Rodríguez. See Rodríguez Vidal, R.
Videnskiĭ, V. S.
Entire functions of genus zero. 154
Vietoris, L.
Wie kann Wahrscheinlichkeit definiert werden? 484
Beweis des Vierscheitelsatzes. 577
Vigier, J.-P. (Cf. Régnier, A.)
Onde pilote en théorie unitaire affine. 117
L'onde en théorie unitaire relativiste. 418
Mécanique ondulatoire dans l'espace de configuration. 436
Vijayaraghavan, T. See Masani, P.
Viktorovskiĭ, E. E.
Existence theorem for differential equations. 375
Vilenkin, N. Ya.
Almost orthogonal systems of functions. 42
Theory of orthogonal kernels. 637
Fourier integrals on topological groups. 637
Vector spaces over topological fields. 1002
Villa, M.
Quasi-asintotiche. 205
Transformations ponctuelles et transformations crémoniennes. 680
Varietà quasi-asintotiche e trasformazioni puntuali. 680
Trasformazioni di contatto algebriche. 1118
Villa, M., e Vaona, G.
Varietà quasi-asintotiche e curve caratteristiche di una trasformazione puntuale. 205
Villari, G.
Estremi dei polinomi di Legendre. 642
Vil'ner, I. A.
Nomographing a function of a complex variable. 1021
Vinograd, R. E. (Cf. Azbelev, N.)
Boundedness of solutions of differential equations. 276
Instability in the sense of Lyapunov. 376
Vinogradov, A. A. See Kračkovskiĭ, S. N.
Vinogradov, I. M.
Estimation of the values of $\chi(p+k)$. 22
Selected works. 610
Vinokurov, S. G. See Muštari, H. M.
Vinokurov, V. G.
Biorthogonal systems spanning a subspace. 183
Viola, T. (Cf. Picone, M.)
Propriétés géométriques de certains domaines d'intégration. 28
Problemi non regolari di calcolo delle variazioni. 483
Origini della prospettiva. 523
Minimo assoluto di integrali multipli. 769
Virtanen, K. I.
Extremalfunktionen auf Riemannschen Flächen. 743
Višik, M. I.
Strongly elliptic systems of differential equations. 174
Homogeneous and nonhomogeneous elliptic differential equations. 279

Višik, M. I. (Continued)
Boundary problems for elliptic differential equations. I, II, III. 473, 652, 1090
Visvanathan, S.
Auxiliary differential equations in orthogonal expansions. 558
Viswanatham, B.
Infinite differential system. 47
Uniqueness theorem and successive approximations. 169
Viswanathan, K. S.
Characteristic vibrations of linear lattices. 224
Vitale, D. R.
Angolo come grandezza vettoriale. 785
Vivier, M.
Matrices extérieurement équivalentes. 236
v. Krbek, F. See Krbek.
v. Krzywoblocki, M. Z. See Krzywoblocki.
Vlasov, A. A. See Wlassow, A. A.
v. Laue, M. See Laue.
Vleck, J. H. Van. See Van Vleck.
v. Mises, R. See Mises.
Vodička, V.
Conduction de la chaleur dans une barre. 983
Geschichtete Plattenkörper mit leichter Füllung. 1144
Voellmy, H. R. See Perret, E.
Voetter, H.
Berechnung der Eigenwerte von Säkulargleichungen. 501
Vogel, A.
*Klassische Grundlagen der Analysis. 627
Vogel, T.
Réponse d'un quadripôle. 704
Vogt, E. See Neamtan, S. M.
Vogt-Nilsen, N.
Electrolytic double-tank. 94
Voĭt, S. S.
Propagation of waves from radiating disc. 1142
Reflection and refraction of sound waves. 1142
Volkmann, B. (Cf. Rohrbach, H.)
Hausdorffsche Dimensionen von Mengen. 1070
Volkov, D. M.
Integrals for linear hyperbolic problems. 655
Conservation law for electro-magnetic fields. 1150
Volkov, E. A.
Mechanical apparatus for Poisson's equation. 694
Volkovyskiĭ, L. I.
*Type problem for simply connected Riemann surface. 156
Simply connected Riemann surface. 744
Quasi-conformal mappings and conformal pasting. 862
Volosov, V. M.
Nonlinear differential equations. I, II. 276, 1086
Differential equations depending upon a parameter. 1086
Volpato, M.
Derivazione sotto il segno di integrale. 148
Problema di limiti relativo all'equazione $y''=f(x,y,y',\lambda)$. 378
Equazione alle derivate parziali del primo ordine. I, II. 378, 650
Problema dei due corpi di massa variabile. 802
Vol'pert, A. Ya.
Homeomorphisms of denumerable sets. 27
Dirichlet problem in the plane for elliptic equations. 652
Volta, V. Dalla. See Dalla Volta, V.
von Cues, Nikolaus. See Cues.
von Krbek, F. See Krbek.
von Mises, R. See Mises.
von Neumann, J. See Neumann.
von Stackelberg, H. See Stackelberg.
von Weizsäcker, C. F. See Weizsäcker.
van de Vooren, A. I.
Theodorsen function for stable oscillations. 103
Generalization of Prandtl's equation. 1028
van de Vooren-van Veen, J. F.
Prime numbers and prime ideals. 22
Vora, Shanti A.
Distribution of chi-square. 189
Vorob'ev, N. N.
Ideals of associative systems. 10
Calculus of propositions with strong negation. 233
Associative systems. 718
*Fibonacci numbers. 1062
Vorob'ev, Yu. V.
Numerical integration of equations of physics and electron optics. 413
Voronoĭ, G. F.
Indeterminate quadratic forms. I, II. 954
Voskresenskiĭ, K. D.
Nonlinear problem of heat conduction. 560
Heat regime of a shaft. 984
Voss, K. See Hopf, H.
Vowels, R. E.
Synchronous machines. 705
Vrănceanu, G.
Spaces of Kagan. I, II. 1123
Spaces with non-Euclidean affine connection. 1123
Vroelant, C.
Formes approchées de la fonction d'onde. 979
v. Sanden, H. See Sanden.
v. Szalay, L. See Szalay.
Vučković, V.
Extensions des théorèmes de moyenne. 625
Vulih, B. Z.
Continuous functions in topological spaces. 70

Waadeland, H.
Transcendental equations. I. 150
Ähnliche lineare Abbildungen. I, II. 968, 969
Eine Determinante. 1054
van der Waag, E. J.
Sur les courbures. I, II, III, IV, V. 83
Wada, H.
Mappings from complexes into complex projective space. 74
Abbildungen vom Komplexe auf reellen projektiven Raum. 894
Waddell, M. C.
Regular rings. 348
Waelbroeck, L.
Surcorps du corps des nombres réels. 615
van der Waerden, B. L. (Cf. Schütte, K.)
Punkte auf der Kugel. 401
Der Begriff Wahrscheinlichkeit. 484
Order tests for two-sample problem. 666
Bewegung der Sonne nach greichischen und indischen Tafeln. 831
Algebraische Geometrie. 16. 1012
Testing a distribution function. 1103
Wagner, K.
Durchschnitt von Punktmengen. 191
Wait, J. R.
Reflection of electromagnetic waves. 518
Wakakuwa, H.
Riemann spaces whose homogeneous holonomy groups are integrable. 88
Wakiya, S.
Flow of viscous fluid. 1030
Walfisz, A. Z. See Val'fiš, A. Z.
Walker, A. M.
Tests for linear autoregressive schemes. 299
Sequential sampling for binomial population. 569
Walker, A. W.
Differential equation of a conic. 307
Wallace, A. D.
Mobs. 724
Boolean rings and cohomology. 1108

Wallace, A. H.
Invariant matrices and Gordan-Capelli series. 351
Wallace, R. A.
*Maze solving computer. 1021
Waller, I. See Svenonius, P.
Wallot, J.
*Grössengleichungen, Einheiten und Dimensionen. 821
Walmsley, C.
Gibbs phenomena for Cesàro and Hölder summation. 746
Walsh, J. E.
Equal-tail sign test. 298
Nonparametric tests for Student's hypothesis. 488
Walsh, J. L.
Extremal polynomials in non-euclidean plane. 164
Polynomial expansions of functions. 547
Degree of approximation to functions. 630
Derivatives of sequences of functions. 736
Series expansion for a meromorphic function. 741
Walsh, J. L., and Elliott, H. M.
Degree of approximation on a Jordan curve. 741
Walters, S. S. See Smith, N. M., Jr.
Wan-cheng Chiu. See Chiu.
Wang, Chueh-ming.
*Variance component analysis and tests of significance. 890
Wang, Hao.
Logic of many-sorted theories. 3
Truth definitions and consistency proofs. 123
Arithmetic models for formal systems. 439
Irreducibility of impredicative principles. 439
Predicates defined by induction schemata. 936
Wang, Hsien-Chung.
Transformation groups with fixed end point. 72
Wang, Ming Chen, and Guth, E.
Networks of non-Gaussian flexible chains. 224
Theory of multiple scattering. 503
Wapstra, A. H. See Milatz, J. M. W.
Ward, G. N. (Cf. Taunt, D. R.; Ursell, F.)
Vector differential equations. I, II. 651, 698
Warga, J.
Iterative procedures for differential equations. 587
Warschawski, S. E.
*Conformal mapping of variable regions. 860
Wasow, W. R. (Cf. Motzkin, T. S.)
Solution of Laplace's equation by finite differences. 93
Duration of random walks. 994
Metodi probabilistici per la risoluzione numerica. 1018
Random walks and elliptic difference equations. 1018
Inversion of matrices by random walks. 1018
Wasserman, R. H.
Flow in turbomachines. 427
Wassermann, G. D.
Heat conduction as eigenvalue problem. 560
Wataghin, G.
Nonlocal interaction and cut-off operators. 1046
Watanabe, H.
Séparation des ensembles analytiques plans par une courbe mesurable (B). 960
Watanabe, K. See Miyatake, O.
Watanabe, S.
Birational transformations. 312
Nomography. 1130
Watanabe, S., and Oyama, K.
Minimal polynomial of a matrix. 236
Topological problem concerning electrical networks. 306
Watanabe, Y.
ω^2 distribution. 775
Waterson, A.
Sum of r-th powers of first n integers. 535
Watson, G. L.
Sums of eight values of a cubic polynomial. 250
Watson, G. L. (Continued)
Indefinite quadratic forms. 955
Critical lattices of region $|x|^p + |y|^p \leqq 1$. I. 1065
Watson, G. N.
Periodic sigma functions. 43
Watson, K. M.
Multiple scattering and the many-body problem. 829
Watson, P. D.
Limits of sequences of sets. 893
Waugh, D. F., and Waugh, F. V.
Probabilities in bridge. 770
Waugh, F. V. See Waugh, D. F.
Ważewski, T.
Coïncidence asymptotique des intégrales de deux systèmes d'équations différentielles. 49
Condition pour qu'une fonction continue soit monotone. 257
Weaver, M. W.
Cosets in a semi-group. 12
Weber, C.
Kugel mit normalgerichteten Einzelkräften. 335
Weber, E.
*Conformal mapping applied to electromagnetic problems. 824
Weber, M., and Erdélyi, A.
Analogue of Rodrigues' formula. 871
Weber, R. See Ruppel, W.
Weidenhammer, F.
Nichtlineare Biegeschwingungen des Stabes. 1039
Weil, A.
Théorèmes de de Rham. 307
Picard varieties. 314
Jacobi sums as "Grössencharaktere." 452
"Formules explicites" de la théorie des nombres premiers. 727
Wei-Liang Chow. See Chow.
Weinberg, L.
Synthesis of transfer functions. 824
Unbalanced RLC networks. 825
Weinberger, H. F.
Inequality with alternating signs. 24
Weinstein method for eigenvalues. I, II. 290
Bounds for torsional rigidity. 1084
Weinstein, A. (Cf. Payne, L. E.)
Équation de Poisson et équation des ondes. 176
Tricomi's equation and potential theory. 177
Cracks and dislocations in shafts under torsion. 221
*Helmholtz problem of conformal representation. 743
Axially symmetric potential theory. 749
Weinstock, R.
*Calculus of variations with applications. 661
Weiss, L.
Testing one simple hypothesis against another. 889
Weissinger, J.
Verfahren von Multhopp. 210
Tragflügeln mit Tiefensprung. 210
Iterationsverfahren. 478
Numerische Integration Differentialgleichungen. 800
Weitzenböck, R. W.
Equilateral triangles and squares. 674
von Weizsäcker, C. F.
*Hydrodynamik und Kosmogonie. 95
Welter, C. P.
Advancing operation in abelian group. 132
Wendel, J. G. (Cf. Hausner, M.)
Group algebras. I, II. 246
Wendt, H.
Problem der Jungfernquelle. 1138
Wen-Tsun Wu. See Wu, Wen-Tsun.
Wenzl, F.
Numerische Auflösung algebraischer Gleichungen. 412
Werenskiold, P. See Olsen, H.
Wergeland, H. See Olsen, H.

Wermer, J.
Invariant subspaces. I, II. 55, 384
Ideals in commutative Banach algebras. 991
Werner, J. See Chang, Chieh-Chien.
Wessel, W.
Theorie des Elektrons. III. 709
Westergaard, H. M.
*Theory of elasticity and plasticity. 513
Westervelt, P. J.
Steady rotational flow generated by sound field. 700
Weston, J. D.
Bilinear form related to Hilbert's. 289
Wever, F.
Reduzierte freie Liesche Ringe. 444
Weyl, H.
*Symmetry. 16
Kapazität von Strahlungsfeldern. 225
Randwertaufgaben im Aussenraum für Strahlungsfelder. 933
Weyssenhoff, J.
Dynamics of spin-particles. I, II. 214
Relativistic models of Dirac's electron. 214
Relativistically invariant canonical formalism. 214
Weyssenhoff, J., and Raabe, A.
Relativistic dynamics of spin-particles. I, II. 213
Whaples, G.
Generalized local class field theory. I. 140
Wheeler, D. J. See Brooker, R. A.
Whipple, R. T. P. See Heading, J.
White, P. A.
Generalized manifolds with boundaries. 72
Jordan-Brouwer separation theorem. 490
Regular convergence of manifolds with boundary. 1003
White, W. B. Smith-. See Smith-White, W. B.
Whitehead, G. W.
Freudenthal theorems. 1110
Whitehead, J. H. C.
Normalizators of transformation groups. 15
Obituary: E. J. Cartan, 1869–1951. 524
Whiteley, T. B., and Alldredge, L. R.
Wave analyser for Fourier analysis. 323
Whiteman, A. L.
Finite Fourier series and equations in finite fields. 621
Whitham, G. B.
Flow pattern of supersonic projectile. 330
Whitmer, R. M.
Dielectric wave guide. 338
Whitney, A. M. (Cf. Aissen, M.; Schoenberg, I. J.)
Totally positive matrices. 732
Whitrow, G. J.
Fitzgerald-Lorentz contraction. 1134
Whittaker, E. T.
*History of the theories of aether and electricity. I. 1
Reversion of series. 40
Obituary: A. J. W. Sommerfeld. 525
Whittle, P.
Time series analysis. 191
Time series harmonic components and covariance structure. 488
Tests of fit in time series. 666
Models of population and epidemic theory. 890
Whyburn, G. T.
Quasi-compact mappings. 192
k-fold irreducibility of mappings. 305
Unified space for mappings. 669
Whyburn, W. M. See Burton, L. P.; Hinds, A. K.
Whyte, L. L.
Arrangements of points on a sphere. 310
Wick, G. C., Wightman, A. S., and Wigner, E. P.
Intrinsic parity of elementary particles. 827
Widder, D. V. See Bridgman, P. W.; Hirschman, I. I., Jr.
Wiebelitz, R.
Funktionalgleichungen der Potenzen der Riemannschen Zetafunktion. 248
Wiegmann, N. A.
Normal matrices with property L. 716
Wielandt, H. W. (Cf. Hoffman, A. J.)
Umkehrung des Abelschen Stetigkeitssatzes. 265
Wieringen, J. S. Van. See Van Wieringen.
Wightman, A. S. See Wick, G. C.
Wigner, E. P. (Cf. Inönü, E.; Teichmann, T.; Wick, G. C.)
Messung quantenmechanischer Operatoren. 435
Elementary transcendentals. 460
van Wijngaarden, A.
Table of $\int_0^1 \exp(-v^{-2}-xv)\,v^{-2}\,dv$. 90
Large deflections of rings. 222
A certain asymptotic expansion. 872
*Ut tensio sic vis. 927
Wilansky, A.
Summability: the inset, replaceable matrices, the basis in summability space. 369
Two examples in real variables. 855
Wilder, R. L.
*Introduction to the foundations of mathematics. 441
Wilder, T. W., III. See Duberg, J. E.
Wilker, P., et Mercier, A.
Singularité du temps, formalisme quantique et relation d'incertitude. 1047
Wilkes, M. V.
Orders in automatic digital computer. 504
Wilkes, M. V., and Stringer, J. B.
Micro-programming in electronic digital computer. 691
Wille, R. J.
Transformation intérieure d'une surface non orientable. 865
Willers, F.-A.
Mathematische Maschinen. 1021
Williams, E. J.
Exact tests in multivariate analysis. 299
Interactions in factorial experiments. 300
Williams, E. J., and Kloot, N. H.
Stress-strain relationship. 110
Interpolation in correlated observations. 1104
Williams, F. C., Kilburn, T., and Tootill, G. C.
Universal high-speed digital computers. 589
Williams, G. T.
Evaluating $\zeta(2n)$. 536
Williams, R. M.
Serially correlated observations. 488
Williamson, E. M.
Energy in the nuclear field. 1046
Williamson, J. H.
Linear transformations in linear spaces. 1093
Wilson, R.
Theorem of Pólya's. 363
Integral functions of finite order and mean type. 739
Wiman, A.
p-Gruppen von maximaler Klasse. 722
Winger, R. M.
Polar tangent curves. 315
Winogradzki, J.
Densités attachées aux particules de spin $\frac{1}{2}$. I, II. 340
Observables des particules de spin $\frac{1}{2}$. 340
Wintner, A. (Cf. Hartman, P.; Putnam, C. R.)
Non-vanishing of Dirichlet series. I, II. 39
Parallel surfaces. 203
Infinitesimal geometry of curves. 901
Wise, M. E. (Cf. Rijkoort, P. J.)
Dense random packing of spheres. 495
Wishart, J.
Moment coefficients of k-statistics. 296

Wiskott, D.
Graphische Methode für Schrödinger-Gleichung. 414
Witt, E.
*Intuitionistic mathematics. 440
Satz von Ostrowski. 615
Gruppenring einer endlichen Gruppe. 845
Wittich, H. (Cf. Schubart, H.)
Anwachsen der Lösungen Differentialgleichungen. 171
Extremalaufgabe der konformen Abbildung. 367
Typenproblem. 367
Eindeutige Lösungen von $w'' = P(z, w)$. 873
Wittmeyer, H.
Berechnung Torsionseigenfrequenzen eines Stabes. 601
Wittrick, W. H.
Stability problems for orthotropic and isotropic plates. 223
Buckling of oblique plates. 927
Wittrick, W. H., Myers, D. M., and Blunden, W. R.
Stability of bimetallic disk. 928
Wlassow, A. A.
Inhalt des Mehrteilchenproblems. 437
Woeste, K. (Cf. Flügge, S.)
Atomkern als kompressibler Tropfen. II. 1047
Woinowsky-Krieger, S.
Anwendung der Mellin-Transformation in der Plattenbiegung. 818
Bending of wedge-shaped plate. 818
Wold, H.
Gleichmässige Interkorrelation. 297
Ordinal preferences or cardinal utility? 392
Wolf, E.
Optical instruments. 224
Wolf, F.
Perturbation of operators in Banach spaces. 288
Wolf, J. J.
Office of Naval Research Relay Computer. 323
Wolf, P.
Kennzeichnung galoisscher Algebren. 531
Wolfe, J. See Chamberlin, E.
Wolfowitz, J. (Cf. Dvoretzky, A.; Kiefer, J.)
Stochastic approximation method of Robbins and Monro. 299
Parameters of a linear structural relation. 776
Maximum likelihood and Wald theory of decision functions. 998
Wolfson, K. G.
Ring of all linear transformations. 718
Separation of spectra. 1088
Wolibner, W.
Singularités des fonctions analytiques. 31
Conditions pour qu'une fonction analytique soit univalente. 35
Wolkowitsch, D.
*Notion de moment d'inertie et géométrie. 675
Wolontis, V.
Properties of conformal invariants. 36
Wolska, J.
Problème aux limites de Poincaré. 980
Équations intégrales à singularité polaire. 988
Wong, Y. K.
Inequalities of determinants of Minkowski type. 1054
Inequality for Minkowski matrices. 1054
Wong, Yung-Chow.
Fields of isocline tangent planes. 85
Curvature theory for surfaces. 583
Parallel vectors in projectively flat spaces. 688
Woodbury, M. A. See Dolph, C. L.
Woodruff, R. S.
Confidence intervals for medians. 391
Woods, L. C.
Numerical solution of two-dimensional fluid motion. 693
Singular points in Poisson's equation. 1020
Woonton, G. A.
Diffraction field of an aperture. 518
Woronetz, C.
Forme du jet liquide. 594
Wright, E. M.
Prime number theorem. 137
Theory of primes. 355
Calculation of large primes. 1063
Wright, F. B.
Absolute-valued algebras. 944
Wróbel, T. H. (Cf. Gołąb, St.)
Courbure et torsion géodésique. 407
Wu, M. H. Lee.
*Subharmonic resonance. 754
Wu, T. Y. See Cole, J. D.
Wu, Wen-tsün.
*Puissances de Steenrod. 491
*Classes caractéristiques des structures fibrées sphériques. 1112
Wuest, W.
Grenzschichten an zylindrischen Körpern. 105
Verhalten von Bourdonfedern. 1146
Wunderlich, W.
Eine überall stetige und nirgends differenzierbare Funktion. 148
Euklidische und nichteuklidische D-Linien auf Quadriken. 399
L-Torsen der Flächen 2. Klasse. 405
Torusloxodromen. 1013
Kenntnis der Minimalschraubflächen. 1014
Wundheiler, A. W.
*Some formulas for bar linkages. 1024
Wünsche, G.
Rationelle Sequentialtest-Planung. 191
Wyler, O.
Order and topology in projective planes. 75
Wylie, C. R., Jr.
Line involutions of order three. 199

Xeroudakes, G. F.
Equation $x^4 + mx^2y^2 + ny^4 = z^2$. 950
Xeroudakes, G. F., and Fasoulakes, K. N.
*Introduction to diophantine analysis of higher degree. 19

Yablonovskiĭ, A. V., and Yampol'skiĭ, V. G.
Plane geometry of Lobačevskiĭ. 576
Yablonskiĭ, S. V.
Convergent sequences of continuous functions. 545
Algebra of logic. 937
Yaceev, V. I. See Yatseyev, V. I.
Yaglom, A. M. (Cf. Obukhoff, A. M.)
Stationary random functions. 485
Yaglom, I. M.
Linear subspaces of symplectic space. 795
Yaglom, I. M., and Boltyanskiĭ, V. G.
*Convex figures. 197
Yahontova, N. S. Samoĭlova-. See Samoĭlova-Yahontova, N. S.
Yakovlev, K. P.
*Mathematical treatment of the results of measurements. 906
Yakubovič, V. A.
Characteristic exponents and criteria of stability for linear differential equation. 646
Yamabe, H.
Locally compact group with neighborhood invariant under inner automorphisms. 17
Conjecture of Iwasawa and Gleason. 948
Yamada, K.
Fundamental theory of toothed gearing. I, II, III, IV, V, VI, VII. 506
Yamaguti, M. See Mizohata, S.
Yamamoto, K.
Asymptotic number of Latin rectangles. 442
Enumeration of 7×7 Latin squares. 610

Yamamoto, S.
Estimation of coefficient of variation. 996
Yamamoto, Y.
Equilibrium of elasto-plastic body. 337
Yamamuro, S.
Linear modulars. 482
Yamazaki, K., and Enatsu, H.
Self-energies of mesons. 119
Yampol'skiĭ, V. G. See Yablonovskiĭ, A. V.
Yanenko, N. N.
Metric and projective properties of surfaces. 87
Class of a Riemannian metric. 87
Metrics of class 2. 87
Deformable surfaces V_m in $(m+q)$-dimensional Euclidean space. 794
Imbedding of Riemannian metrics in Euclidean spaces. 1122
Yang, C. N. (Cf. Lee, T. D.)
Two-dimensional Ising model. 522
Yang, C. N., and Lee, T. D.
Equations of state and phase transitions. I. 711
Yang, Kuo-Liang. See Ling, Chih-Bing.
Yano, K. (Cf. Bochner, S.)
Tensor fields and curvature. 88
Homothetic transformations in Riemannian spaces. 409
Riemannian spaces admitting a group of motions of order $\frac{1}{2}n(n-i)+1$. 688
Yano, K., and Adati, T.
Spaces admitting concircular transformations. 688
Yano, K., and Hitosi, H.
Projective geometry of K-spreads. 796
Yano, K., et Sasaki, S.
Espaces de Riemann dont le groupe d'holonomie fixe un plan. 87
Yano, Shigeki. (Cf. Sunouchi, G.)
Extrapolation theorem. 41
Cesàro summability of Fourier series. I, II. 267, 552
Yano, Shimpei.
Generalization of Frenet's formulae. 1125
Yano, T.
*People's tables. 798
Yanovskaya, S. A.
Weltanschauung of Lobačevskiĭ. 524
*The leading ideas of N. I. Lobačevskiĭ. 609
History of Moscow University. 831
Yappa, Yu. A.
Regularization and particles with arbitrary spin. 608
Yates, F.
Obituary: G. U. Yule. 525
Yatseyev, V. I.
Exact solutions of equations of a viscous fluid. 595
Yeh, Mo.
Foci of plane curves. 402
Yennie, D. R.
Classical nonlinear meson theory. 520
Yeung, Ying-Wa. See Le Corbeiller, P.
Yih, Chia-Shun.
Differential equation of atmospheric diffusion. 476
Similarity solution of diffusion equation. 477
Laminar free convection. 512
Yin, Fu-Sheng.
*Categorical syllogism. 835
Ying-Wa Yeung. See Yeung, Ying-Wa.
Yi-Yuan Yu. See Yu, Yi-Yuan.
Ylitch-Daĭovitch, M.
Surfaces fermées orientées. 306
Géométrie projective. 895
Yoh-Han, Pao. See Pao.
Yokomi, R. See Uno, T.
Yoneda, N.
Simplicial mapping, isotopy and desingularization concerning cylinders. 674
Yoshikawa, H.
Représentation conforme d'un domaine. 503
Convergence dans la représentation conforme. 503
Yoshizawa, T. (Cf. Hayashi, K.)
Non-increasing solutions of $y''=f(x,y,y')$. 649
Yosida, K.
Brownian motion in homogeneous Riemannian space. 387
Diffusion equations in Riemannian spaces. 560
Cauchy's problem for wave equations. 757
Fokker-Planck equation and its integral. I, II. 1089
Yosida, T.
Riemann surface of hyperbolic type. 157
Behaviour of pseudo-regular function. 365
Cluster sets of pseudo-analytic functions. 365
Young, A.
Quantitative substitutional analysis. IX. 126
Young, A. D., and Kirkby, S.
Compressible flow about bodies of revolution. 109
Young, D. M. (Cf. Juncosa, M. L.)
*Conformal mapping for flows with free streamlines. 909
Young, F. H.
Transformations of Fourier coefficients. 464
The NOTS REAC. 801
Young, Gail S., Jr. (Cf. Piranian, G.; Titus, C. J.)
A footnote to "Statistical decision functions." 889
Young, Gale. See Karush, W.
Young, G. B. W., and Janssen, E.
Compressible boundary layer. 105
Yowell, E. C. (Cf. Blanch, G.)
*Numerical solution of partial differential equations. 93
Yu, Yi-Yuan.
Heavy disk supported by concentrated forces. 334
Gravitational stresses on deep tunnels. 515
Yudin, V. A.
Mechanisms with higher pairs. 214
Yüh, M. I. See Ku, C. H.
Yûjôbô, Z.
Ahlfors's theory of covering surfaces. 549
Yung-Chow Wong. See Wong.
Yuškevič, A. P.
Mathematics in Middle Asia in the 9th–15th centuries. 523
Yu Why Chen. See Chen.

Zaanen, A. C.
Integral transformations and their resolvents. 767
Zacharias, M.
*Das Parallelenproblem und seine Lösung. 308
Konstruktionen der ebenen Konfigurationen $(12_4, 16_3)$. 308
Zacher, G.
Caratterizzazione dei t-gruppi finiti risolubili. 722
Gruppi finiti a sottogruppo di Frattini identico. 722
Zadeh, L. A.
Linear signal transmission systems. 434
Class of stochastic operators. 771
Zadiraka, K. V.
Characteristic values of Sturm-Liouville boundary problem. 588
Zadunaisky, P. E.
Numerical computation of elliptic integral. 1019
Zagar, F.
Espansione dell'Universo. I, II. 99
Zahorski, Z.
Courbes dont la tangente prend sur tout arc partiel toutes les directions. 497
Zaĭceva, M. I.
Ordered Abelian groups. 721
Žak, I. E.
Convergence of double Fourier series. 42
Conjugate double trigonometric series. 636
Conjugate functions of two variables. 975
Summability of double series. 1079

Zakon, E.
Multiplication of transfinite numbers. 733
Zalgaller, V. A.
Curves with curvature of bounded variation. 76
Zamansky, M.
Fonctions absoluement continues et conjuguées d'une fonction sommable. 41
Séries divergentes. I, II. 865, 1079
Zappa, G.
Elementi neutri nel reticolo dei sottogruppi di un gruppo finito. 446
Gruppi p-supersolubili. 446
*Teoria dei reticoli e le sue applicazioni. 1056
Zarankiewicz, C. See Kuratowski, C.
Zarantonello, E. H.
Trigonometric interpolation. 369
Zariski, O.
Complete linear systems on normal varieties. 80
Zassenhaus, H. J.
Quadratic law of reciprocity and Galois fields. 450
Darstellungen der Lie-Algebren. 531
Theorem of Maclagan-Wedderburn. 614
Zatskis, H.
Problem in heat conduction. 1090
Žautykov, O. A.
Denumerable system of partial differential equations. I, II. 759
Zavalo, S. T.
Free operator groups. 351
Zelinsky, D.
Linearly compact modules and rings. 532
Zeller, K.
Verallgemeinerte Matrixtransformationen. 158
Faktorfolgen bei Limitierungsverfahren. 158
Méthode de sommation d'Abel. 744
FK-Räume und Matrixtransformationen. 866
Merkwürdigkeiten bei Matrixverfahren. 866
FK-Räume in der Funktionentheorie. I. 1092
Zemmer, J. L., Jr.
Subalgebras of finite division algebras. 443
Ordered algebras. 1056
Ženhen, O.
Existence and uniqueness of solutions of integro-differential equations. 383
Zen'kovič, Ya. I. Sekerž-. See Sekerž-Zen'kovič, Ya. I.
Zerna, W.
Randstörungen kreiszylindrischer Tonnenschalen. 700
Zernov, N. V.
Diffraction of electromagnetic waves. 702
Zeuli, T.
Vibrazioni elettromagnetiche in una cavità. 115
Sistemi dinamici corrispondenti con forze funzioni lineari delle velocità. 917
Ževakin, S. A.
Discrete model of a star. 212
Žgenti, V. S.
Thin sloping shell. 925
Ziegler, H.
Begriff des konservativen Systems. 592
Kritische Drehzahlen. 819
Ziemba, S.
Cylinder subjected to compressive load. 926
Zilber, J. A. See Eilenberg, S.
Zimmermann, W.
Stetige Abbildungen topologischer Räume. 893
Zin, G.
Esistenza e rappresentazione di funzioni analitiche. 1073
Geometria infinitesimale diretta delle curve. 1119
Zippin, L. See Montgomery, D.
Zitarosa, A.
Formula di inversione per la trasformata di Hankel. 465
Reticolo dei sottogruppi normali. 618
Problema misto di Dirichlet-Neumann. 981
Žitomirskiĭ, Ya. I.
Convergence of numerical series. 265
Zizicas, G. A.
Stability of thin elastic plates. 927
Žižina, A. I. See Oleĭnik, O. A.
Zlámal, M.
Nonlinear forced oscillations. 647
Zlateff, I.
Propagation de la chaleur dans une barre. 1090
Zmorovič, V. A.
Convergence of positive numerical series. 265
Analytic functions univalent in ring. 1075
Zondek, B., and Thomas, L. H.
Stability of Couette flow. 919
Zonneveld, J. A., and Berghuis, J.
Truncated series of exponential and Bessel type. 266
Zubov, V. P.
Old Russian mathematics. 121
Zucker, R. See Salzer, H. E.
Zuckerman, H. S. See Hewitt, E.
Žuhovickiĭ, E. M.
Free steady convection. 217
Zurmühl, R.
Runge-Kutta-Verfahren. 413
Zvereva, K. D.
Force exerted upon wing by compressible fluid. 599
Zwirner, G.
Problema di Nicoletti per le equazioni differenziali. 645
Equazione $\partial^2 z/\partial x \partial y = f(x, y, z, \partial z/\partial y)$. 655
Zygmund, A. See Calderon, A. P.; Saks, S.; Salem, R.
Zykov, A. A.
Linear complexes. 493
Spectrum problem in extended predicate calculus. 936

SUBJECT INDEX

The sign * is used to mark only those books which contain a general exposition of the field in question. Should a cross-reference refer to a field or subfield which does not occur in this subject index, this means that no paper reviewed in this volume has been classified as belonging to that field or subfield.

ABELIAN GROUPS. See: groups.

ABELIAN INTEGRALS. See: algebraic functions; algebraic geometry; elliptic functions (Abelian integrals).

ABSOLUTE DIFFERENTIAL CALCULUS. See: differential geometry (Riemannian geometry); vector calculus (tensors).

ABSOLUTELY MONOTONE FUNCTIONS. See: completely monotone functions.

ABSTRACT SPACES. See: differential geometry (Finsler spaces); ergodic theory; functional analysis; functions of real variables (functions in abstract spaces); geometry (abstract metrics); groups; measure and integration; sets; topology (topological spaces).

ACOUSTICS. Cf. Elasticity; hydrodynamics; numerical methods (practical harmonic analysis).

Montroll, E. W.-Hart, R. W. 110
Nedospasov, A. V. 220
Guptill, E. W.-MacDonald, A. D. 332
Sretenskiĭ, L. N. 428
Doak, P. E. 512
Nomura, Y.-Kawai, N. 513
Kawai, N. 513
Proudman, I. 596
Stenzel, H. 600
Faran, J. J., Jr. 600
Westervelt, P. J. 700
Isakovič, M. A. 700
Copson, E. T. 816
Meier, R.-Schuster, K. 820
Parker, E. M. 923
Eckart, C. 923
Haranen, V. Ya. 923
Keller, J. B. 923
Karal, F. C. 923
Guptill, E. W. 923
Miles, J. W. 923, 924
Gerjuoy, E. 924
Eckart, G. 924
Medwin, H.-Rudnick, I. 1035
Brehovskih, L. M. 1142
Eckart, C. 1142
Somers, E. V. 1142
Volt, S. S. 1142

Diffraction. Cf. Electricity and magnetism (diffraction).

Maue, A.-W. 223
Berry, F. J. 333
Miles, J. W. 816
Magnus, W. 816
Kay, I. 1142

ACTUARIAL MATHEMATICS. Cf. Probability; statistics.

Mathematics of finance. Cf. Economics; numerical methods (equations).

Lah, I. 411

Analysis of mortality. Cf. Statistics (biometrics).

Steffensen, J. F. 324

Insurance.

Arfwedson, G. 396
Pompili, E. 568
Lefèvre, J. 774
Sverdrup, E. 774
Kern, E. R. 887
Kalkanes, I. 887
Lah, I. 910

ADDITIVE NUMBER THEORY. See: number theory (additive).

AERODYNAMICS. See: hydrodynamics.

AFFINE DIFFERENTIAL GEOMETRY. See: differential geometry (conformal).

AGGREGATES. See: partially ordered sets; sets.

AIRFOIL THEORY. See: hydrodynamics (airfoil theory).

ALGEBRA: ABSTRACT. Cf. Algebra: linear; groups; partially ordered sets.

*Haupt, O. 612
Bodenheimer, F. S.-Schiffer, M. 781
*Jacobson, N. 837
*Birkhoff, G.-Mac Lane, S. 939

ALGEBRA: ABSTRACT. (Continued)

Universal algebra.

Goldie, A. W. 9, 10
Devidé, V. 10
Vagner, V. V. 10
Vorob'ev, N. N. 10
Smiley, M. F. 10
Fogelis, E. 126
Lorenzen, P. 127
Goldie, A. W. 129
MacLane, S. 133
Green, J. A. 133
Higman, G. 238
Thurston, H. A. 238, 239
Marczewski, E. 347
Peremans, W. 347
Evans, T. 347
Löwig, H. F. J. 443
Dubreil-Jacotin, L.-Croisot, R. 529
Fuchs, L. 612
Shoda, K. 614
Rédei, L. 614
Vorob'ev, N. N. 718
Pickert, G. 718
Sikorski, R. 839
Mal'cev, A. I. 839
Lyapin, E. 940

Fields, function fields. Cf. Geometry (geometry in fields); number theory (algebraic number theory; class fields; analytic theory in number fields).

Krull, W. 131
Seele, T. 132
Pickert, G. 239
Dieudonné, J. 239
Kasch, F. 239
Satake, I. 240
Kametani, S. 240
Kolchin, E. R. 241
Herz, J.-C. 349
Hillman, A. 444
Dürbaum, H. 530
Jaeger, A. 530
Kawai, R. 580
Kneser, M. 613
Kramer, M. 613
Shoda, K. 614
Zassenhaus, H. J. 614
Gurevič, G. B. 615
Borevič, Z. I. 619
Cohn, R. M. 721
Lang, S. 841
Dieudonné, J. 841
Kasch, F. 841
Iwasawa, K. 849
van der Kulk, W. 941
Rosenlicht, M. 1012
Klingenberg, W. 1056
Mal'cev, A. I. 1057

Galois theory. Cf. Algebra: equations (classical Galois theory); number theory (class fields).

Permutti, R. 8
Dieudonné, J. 239
Kasch, F. 239
Nakayama, T. 240
Satake, I. 240
Kolchin, E. R. 241
Zemmer, J. L., Jr. 443
Pickert, G. 529
Masuda, K. 530
Wolf, P. 531
Borevič, Z. I. 619
Fröhlich, A. 623
Kustaanheimo, P.-Qvist, B. 944
Järnefelt, G. 944
Lenz, H. 1058
Kneser, M. 1058
Delone, B. N. 1058

p-adic theory. Cf. Number theory (algebraic number theory).

Kawada, Y. 348
Borevič, Z. I. 619

Valuations.

Krull, W. 131
Satake, I. 240
Nagata, M. 529
Eichler, M. 540
Krasner, M. 613
Witt, E. 615
Kaplansky, I. 720
Krull, W. 840
Northcott, D. G. 900
Dürbaum, H. 944

Commutative rings and ideal theory. Cf. Functional analysis (normed rings); partially ordered sets (Boolean algebras).

Rédei, L.-Steinfeld, O. 10
Herz, J.-C. 10
Braconnier, J. 11
Schöneborn, H. 11
Albert, A. A. 11
Curtis, C. W. 127
Rédei, L. 127
Rosenberg, A. 127
Nollet, L. 128
Kaplansky, I.-Mackey, G. W. 128
Samuel, P. 128
Nakayama, T. 129
Kleinfeld, E. 129
Jaeger, A. 129
*Bourbaki, N. 237
Baer, R. 239
Suškevič, A. K. 239
Nakayama, T. 240
Morita, K. 246
Amitsur, S. A. 347
*Asumaya, G. 348
Clarke, F. M. 348
Waddell, M. C. 348
Kaplansky, I. 348
Kawada, Y. 348
Wever, F. 444
Deheuvels, R. 492
Aubert, K. E. 529
Hatteri, A. 529
Nagata, M. 529
Zelinsky, D. 532
Cohn, P. M. 532
Eichler, M. 540
Jaffard, P. 613
Amitsur, S. A. 613
McCoy, N. H. 613
Herstein, I. N. 613
Ikeda, M. 614
Rédei, L. 614
Kleinfeld, E. 614
Burger, E. 614
*Baer, R. 675
Aubert, K. E. 718
Isiwata, T. 718
Osima, M. 718
Wolfson, K. G. 718
McLaughlin, J. E.-Rosenberg, A. 718
Herstein, I. N. 719
Nakayama, T. 719
Fuchs, L.-Seele, T. 719
Ikeda, M. 719
Nagata, M. 719
Levitzki, J. 720
Iseki, K. 720
Krishnan, V. S. 838
Dubreil-Jacotin, M.-L. 839
Mal'cev, A. I. 839
Northcott, D. G. 900
Köhler, E. 900
Rédei, L. 940, 941
Sato, H. 941
Seidenberg, A. 941
Kasch, F. 941
van der Kulk, W. 941
Northcott, D. G. 941
Behrens, E.-A. 942
Almeida Costa, A. 942
Lamprecht, E. 942
Samuel, P. 1012
Zemmer, J. L. 1056
Osima, M. 1056
Seele, T. 1056
Nollet, L. 1056
Raffin, R. 1056
Herstein, I. N. 1056
Hua, Loo-Keng. 1056

Noncommutative rings.

Rédei, L. 443
Asano, K.-Ukegawa, T. 839
Johnson, R. E. 839
Levitzki, J. 840
Curtis, C. W. 840
Tamari, D. 840
Jordan, P. 841
Osima, M. 941

ALGEBRA: ABSTRACT. (Continued)

Associative algebras. Cf. Algebra: linear (special algebras).

Teissier, M. 10
Kuročkin, V. M. 129
Fell, J. M. G.-
Taraki, A. 130
Cohn, P. M. 130
Seidenberg, A. 130
Jaeger, A. 130
Rose, I. H. 130
Nakayama, T. 240
Osima, M. 240
Vandiver, H. S. 348
Kawada, Y. 348
Osima, M. 349
Šneidmyuller, V. I. 349
Zemmer, J. L., Jr. 443
Osima, M. 530
Masuda, K. 530
Wolf, P. 531
Eichler, M. 540
Kasch, F. 614
Albert, A. A. 614
Siegel, C. L. 623
Nagata, M. 719
Levitzki, J. 720
Tornheim, L. 720
Evans, T. 839
Pernet, R. 840
Kuroš, A. G. 943
Goldhaber, J. K. 1057

Lie algebras. Cf. Groups (Lie groups).

Dixmier, J. 12
Jacobson, N. 241
Dynkin, E. B. 244
Karpelevič, F. I. 245
Rozenknop, I. Z. 397
Wever, F. 444
Schenkman, E. 444
Satake, I. 448
*Chevalley, C. 448
Murakami, S. 531
Sul'din, A. V. 531
Zassenhaus, H. 531
Koszul, J.-L. 943
Hochschild, G.-
Serre, J.-P. 943
Iséau, E.-
Wigner, E. P. 1061
Dieudonné, J. 1062

Nonassociative algebras.

Albert, A. A. 11
Kokoris, L. A. 11
Amitsur, S. 11
Skornyakov, L. A. 240, 241
Jacobson, N. 531
Albert, A. A. 614
van Est, W. T. 720
Osima, M. 841
Aikinuse, V. G. 944
Wright, F. B. 944
Shimura, G. 1057
Ikeda, M. 1057

Topological problems. Cf. Functional analysis (linear topological spaces); groups (continuous); topology.

Schöneborn, H. 11
Tornheim, L. 131
Kaplansky, I. 348
Tits, J. 447
Michael, E. A. 482
Arens, R. 482
Zelinsky, D. 532
Witt, E. 615
Waelbroeck, L. 615
Kaplansky, I. 720
Iseki, K. 720
Fleischer, I. 720
Hopf, H. 720
Iwasawa, K. 849
Berezanskiĭ, Yu. M.-Krein, S. G. 944
Vilenkin, N. Ya. 1002
*Samuel, P. 1012
Kowalsky, H.-J. 1058
Henriksen, M.-
Isbell, J. R. 1107

ALGEBRA: EQUATIONS. Cf. Polynomials.

*Krull, W. 442
*Haupt, O. 612
Faddeev, D. K.-
Sominskiĭ, I. S. 1055

Symmetric functions. Cf. Combinatorial analysis.

Mahajani, G. S.- 8
Thiruvenkatachar, V. R.- 8
Thawani, V. D. 8
Cugiani, M. 20
Rédei, L. 836

Zeros, irreducibility. Cf. Algebra: linear (characteristic values); functions of complex variables (zeros); numerical methods (equations); polynomials (zeros; irreducibility).

Frank, E. 6
Lepage, T. 126
Young, A. 126
Scarf, H. 126
Urazbaev, B. M. 237
Mohr, E. 465
Pipping, N. 836

Classical Galois theory. Cf. Algebra: abstract (Galois theory).

Permutti, R. 8

Systems of equations, elimination.

Markovitch, D. 164
Gonçalves, J. V. 940

ALGEBRA: LINEAR (CLASSICAL THEORY). Cf. Algebra; abstract; geometry (analytic; projective); groups; numerical methods (systems).

*Stoll, R. R. 442
*Haupt, O. 612
*Baer, R. 675
Fomin, S. V. 716
*Birkhoff, G.-
Mac Lane, S. 939
Faddeev, D. K.-
Sominskiĭ, I. S. 1055

Matrices, determinants; general theory. Cf. Series (convergence).

*Perlis, S. 6
Menger, K. 6
Hruška, V. 6
Osborne, E. E. 6
Bellman, R. 6
Charrueau, A. 6
Freudenthal, H. 7
Nosarzewska, M. 7
Vermes, P. 7
Cherubino, S. 8
Sce, M. 8
Bulgakov, B. V. 125
Parker, W. V.-
Mitchell, B. E. 125
Peremans, W.-
Duparc, H. J. A.-
Lekkerkerker, C. G. 125
Debreu, G. 125
Ostrowski, A. 125, 126
Parodi, M. 126
Asbelev, N.-
Vinograd, R. 126
Lepage, T. 126
Gantmaher, F. R.-
Krein, M. G. 178
Segre, B. 209
Sagastume Berra, A. E. 235
*Denis-Papin, M.-
Kaufmann, A. 235
de Rham, G. 236
Watanabe, S.-
Oyama, K. 236
Motzkin, T. S.-
Taussky, O. 236
Vivier, M. 236
Fréchet, M. 237
Toscano, L. 237
Turri, T. 314
Conforto, F. 314
Ryser, H. J. 346
Schönhardt, E. 346

ALGEBRA: LINEAR (CLASSICAL THEORY). (Continued)

Matrices, determinants; general theory. (Continued)

Sherman, S. 346
Bergmann, G. 360
Stojaković, M. 443
Rutledge, W. A. 443
Leavitt, W. G. 528
Cherubino, S. 528
Lidskiĭ, V. B. 528
Mitchell, B. E. 610
Schneider, H. 610
Lloyd, E. H. 610
Schwerdtfeger, H. 610
Ascoli, G. 610
Perfect, H. 611
Hoffman, A. J.-
Wielandt, H. W. 611
Ostrowski, A. M. 611
Ballieu, R. 611
Chamberlin, E.-
Wolfe, J. 611
Charrueau, A. 611
MacNerney, J. S. 626
Taussky, O.-
Todd, J. 715
*Ferrar, W. L. 715
Tchernikow, S. N. 716
Wiegmann, N. A. 716
Carlitz, L. 716
Duparc, H. J. A.-
Peremans, W. 716
Bergström, H. 716
Aitken, A. C. 716
Foulkes, H. O. 716
Bellman, R. 731
Whitney, A. M. 732
Haynsworth, E. V. 837
Room, T. G. 837
Parker, W. V. 939
Katz, L.-Olkin, I. 939
Tornheim, L. 939
Littlewood, D. E. 939
Schwerdtfeger, H. 939
Charles, B. 939
Newton, R. H. C. 939
Gyires, B. 940
Rédei, L. 940
Krein, M. G. 981
Gyires, B. 1054
Wong, Y. K. 1054
Schneider, H. 1055
Rigaut, J. 1055
Kotelyanskiĭ, D. M. 1055
Quade, W. 1055
Stojaković, M. 1055
Rutishauser, H. 1055
Davis, C. 1055
Mal'cev, A. I. 1057

Special matrices, determinants.

Frank, E. 6
Burchnall, J. L. 44
Janeckoski, V. 235
Negri, D. 685
Tenca, L. 1054
Brauer, A. 1054
Waadeland, H. 1054

Special algebras. Cf. Functions of complex variables (functions of quaternion variables).

Vermes, P. 7
Spampinato, N. 8
Papy, G. 8
*Segre, B. 208
Segre, B. 209
Kurepa, D. 237
Checcucci, V. 277
Bencivenga, U. 346
Spampinato, N. 346
Rocco Boselli, A. 346
Kawada, Y. 410
Rutledge, W. A. 443
Duncan, D. G. 443
Leum, M.-
Smiley, M. F. 528
Bencivenga, U. 550, 551
Sattes, R. A. 603
Pinl, M. 611
Kurepa, G. 612
Iseki, K. 717

Linear forms and equations. Cf. Functional analysis (equations); number theory.

Basilewitch, V. 6
Bucerius, H. 235
Tchernikow, S. N. 716
*Šilov, G. E. 881

Quadratic and bilinear forms. Cf. Functional analysis (equations); number theory.

Furhat, N. 443
Eichler, M. 540
Afriat, S. N. 610
Gurevič, G. B. 615
Duparc, H. J. A. 717
Plans, A. 717
Vajda, S. 837
Clark, F. E. 940

Characteristic values, elementary divisors.

Osborne, E. E. 6
Leng, Sen-ming 7
Stein, P. 8
Freudenthal, H. 16
Parker, W. V.-
Mitchell, B. E. 125
Ostrowski, A. 126
Parodi, M. 126
Asbelev, N.-
Vinograd, R. 126
Gantmaher, F. R.-
Krein, M. G. 178
*Parodi, M. 236
Hestenes, M. R.-
Karush, W. 236
Lidskiĭ, V. B. 528
Perfect, H. 611
Hoffman, A. J.-
Wielandt, H. W. 611
Ostrowski, A. M. 611
Brodskiĭ, M. L. 692
Brauer, A. 836
Medlin, G. W. 836
Parker, W. V. 836
Vajda, S. 837
Nagler, H. 837
Schneider, H. 1055

ALGEBRA OF LOGIC. See: logic (formal); partially ordered sets.

ALGEBRAIC FUNCTIONS. Cf. Algebra: abstract (fields); algebraic geometry; elliptic functions; functions of complex variables (Riemann surfaces).

Turri, T. 314
Conforto, F. 314
Andreotti, A. 403
*Hodge, W. V. D. 500
Roquette, P. 622, 848
Segre, B. 900
Rosenlicht, M. 1012

ALGEBRAIC GEOMETRY. Cf. Algebraic functions; geometry (configurations; projective).

*Godeaux, L. 401
Gröbner, W. 401
*Hodge, W. V. D. 500

Special curves and surfaces. Cf. Calculus (applications); geometry (elementary).

Brown, L. M. 310
Bílek, J. 402
Riccio, M. T. 402
Godeaux, L. 402
Haradze, A. 578
Hutcherson, W. R. 1116
Sz.-Nagy, G. 1116
Bagchi, Hari das.-
Mukherji, Biswarup. 1116

ALGEBRAIC GEOMETRY. (Continued)

Curves: general theory.

Turri, T. 77
Severi, F. 80
Rosenlicht, M. 80
Gorenstein, D. 198
Mazotti Biggiogero, G. 199
Stubban, J. O. 310
Ladopoulos, P. D. 310
Gaeta, F. 310
Turri, T. 314
Yeh, Mo. 402
Tibiletti, C. 402
Godeaux, L. 496
Gauthier, L. 577
Nagell, T. 578
Beatty, S.-Lane, N. D. 578
Fusa, C. 578
Rosina, B. A. 680
Nakai, Y. 680
Chisini, O. 680
Nollet, L. 681
Godeaux, L. 789
Caputo, M. 789
Segre, B. 789
Nagell, T. 789
Gherardelli, F. 789
Morgantini, E. 897
Gambier, B. 897
Segre, B. 900
Kivikoski, E. 1010
Fusa, C. 1010
Nagell, T. 1010
Marchionna, E. 1010
Amato, V. 1010
Bagchi, Hari das.-Chaki, Manindra Chandra. 1116
Fabricius-Bjerre, F. 1116
Brennan, J. G. 1116
Galafassi, V. E. 1116
Spampinato, N. 1116
Villa, M. 1118

Surfaces, varieties: general theory.

Chow, Wei-Liang-Kodaira, K. 37
Manara, C. F. 76
Godeaux, L. 76, 77
Semple, J. G. 78
Roth, L. 78, 79
Muracchini, L. 79
Gaeta, F. 79
Sangermano, C. 79
Scott, D. B. 79
Zariski, O. 80
Matsusaka, T. 81
Igusa, J. 81
Kodaira, K. 82
Krull, W. 131
Manara, C. F. 199
Godeaux, L. 199, 200, 201
Andreotti, A. 201
Nakano, S. 201
Igusa, J. 201
Matsusaka, T. 201
Saban, G. 205
Villa, M. 205
Villa, M.-Vaona, G. 205
Muracchini, L. 205
d'Orgeval, B. 311
Vaccaro, M. 311
Nollet, L. 311
Roth, L. 311
Galafassi, V. E. 311
Franchetta, A. 311
Gallarati, D. 311
Burau, W. 313
Severi, F. 313
Baldassarri, M. 313, 314
Abellanas, P. 314
Weil, A. 314
Chow, Wei-Liang. 315
Tibiletti, C. 402
Fadini, A. 402
Tosques, E. 402
Vaccaro, G. 402
Gaeta, F. 403
Nash, J. 403
Andreotti, A. 403, 404
Room, T. G. 496
Barsotti, I. 496
Vaona, G. 496
Chisini, O. 497
Blaschke, W. 497
Godeaux, L. 578, 579
Conforto, F. 579
Du Val, P. 579
Néron, A. 580
Igusa, J. 580
Chow, Wei-Liang. 580
Kawai, R. 580
Villa, M. 680
Vaona, G. 680
Nollet, L. 681
Alguneid, A. R. 681
Conforto, F.-Gherardelli, F. 681
Godeaux, L. 682
Gaeta, F. 682
Gröbner, W. 682
Kundert, E. G. 682
Samuel, P. 683
Segre, B. 683
Morgantini, E. 725
Andreotti, A. 790
Baldassarri, M. 790
Tibiletti, C. 790
Fusa, C. 790
Gröbner, W. 790
Kodaira, K. 790
Roquette, P. 848
Godeaux, L. 897, 898
Knight, A. J. 898
Burnist, P. 898
Du Val, P. 898
Brusotti, L. 899
Baldassarri, M. 899
Conforto, F. 899
Samuel, P. 900
Northcott, D. G. 900
Kähler, E. 900
Spampinato, N. 1011
Todd, J. A. 1011
Galafassi, V. E. 1011
Severi, F. 1011
van der Waerden, B. L. 1012
Rosenlicht, M. 1012
Samuel, P. 1012
Togliatti, E. G. 1117
Burau, W. 1117
Godeaux, L. 1117
de Boer, J. H. 1117
Roth, L. 1117

Cremona transformations.

Godeaux, L. 77
Turri, T. 77, 78
Severi, F. 80
Wylie, C. R., Jr. 199
Tosi, A. 312
Vent, M. L. 312
Watanabe, S. 312
Dedò, M. 312
Godeaux, L. 312
Conru, A. 313
Purcell, E. J. 401
Longo, C. 402
Chisini, O. 496
Turri, T. 578
Purcell, E. J. 680
Muracchini, L. 680
Manara, C. G. 680
Villa, M. 680
Manara, C. F. 789
Châtelet, F. 790
*Godeaux, L. 898
Godeaux, L. 1010
Galafassi, V. E. 1011
Villa, M. 1118

ALGEBRAIC INVARIANTS. See: invariants (algebraic).

ALGEBRAIC NUMBERS. See: number theory.

ALMOST PERIODIC FUNCTIONS. Cf. Dirichlet series; Fourier series.

Cinquini, S. 162
Burkill, H. 162
Bereznanskiĭ, Yu. M. 162
Fast, H. 367
Marčenko, V. A. 367
Levin, B. Ya. 370
Cinquini, S. 637
Bereznanskiĭ, Yu. M. 746
Petersen, R. 746
Struble, R. A. 846
Hewitt, E. 882
Sz.-Nagy, B. 976
Kopeć, J. 976
Kahane, J.-P. 976
Maurin, K. 990
Kovan'ko, A. S. 1081

ANALYTIC FUNCTIONS. See: functions of complex variables.

ANALYTIC GEOMETRY. See: geometry (analytic).

ANALYTIC THEORY NUMBERS. See: number theory.

ANTENNAS. See: electricity (antennas).

APPROXIMATION AND EXPANSION OF FUNCTIONS. Cf. Differential equations (boundary value problems); Fourier integrals; Fourier series; functions of complex variables (polynomial expansions; complex interpolation); integral transforms; interpolation; numerical methods; polynomials (polynomial approximations); series; special functions (functions defined by special expansions).

APPROXIMATION AND EXPANSION OF FUNCTIONS. (Continued)

General theory.

Kober, H. 24
Harrik, I. Yu. 25
Il'in, V. P. 25
Pukánszky, L.-Rényi, A. 29
Kober, H. 154
Ivanov, V. K. 254
Bohman, H. 254
Gagua, M. E. 542
Vilenkin, N. Ya. 617
Sard, A. 658

Orthogonal functions and expansions. Cf. Polynomials (special polynomials).

Baiada, E. 42
Vilenkin, N. Ya. 42
Alexits, G. 43
Head, J. W. 163
Civin, P. 163
Levitan, B. M. 163
Tandori, K. 268
Sunouchi, G.-Yano, S. 268
Iwata, G. 630
Graves, R. E. 636
Vilenkin, N. Ya. 637
Gagua, M.B. 976
Alexits, G. 1081

Completeness theorems.

Haplanov, M. G. 154
McKean, H. P., Jr. 268
Leont'ev, A. F. 548
Ahiezer, N. I. 554
Carleson, L. 630
Rudin, W. 746
Szász, O. 976
Mandelbrojt, S. 1068
Kovan'ko, A. S. 1081

Best approximation.

Kalinovskaya, S. S. 465
Gagua, M. 542
San Juan, R. 543
Selfridge, R. G. 1067
Ibragimov, I. I. 1083

AREA. See: measure and integration (area).

ARITHMETICAL FUNCTIONS. See: number theory (number-theoretical functions).

ASTRONOMY.

Celestial dynamics. Cf. Mechanics.

Tzénoff, I. 95
Popović, B. 96
Chazy, J. 415
Skabicki, I. N. 415
Ogorodnikov, K. F. 415
Krat, V. A. 589
Pilowski, K. 1131

3 and n-body problem.

Chazy, J. 95
Mihailovitch, D. 101
Andersson, S. 211
Schmeidler, F. 212
Datta Majumdar, S. 227
Stumpff, K. 324
Iglesias Garrido, T. 324
Stumpff, K. 415
Goldstein, A. A.-Fröberg, C.-E. 415
Thüring, B. 415
Sisova, O. A. 589
Szebehely, V. G. 589
Merman, G. A. 590
Agekyan, T. A. 590
Heinrich, W. W. 590
Graffi, D. 801
Volpato, M. 802
Béloritzky, D. 802
Grémillard, J. 802
Mendes, M. 910
Siegel, C. L. 910
Lemaitre, G. 910
Littlewood, J. E. 910
*Sokolov, Yu. D. 910
Grémillard, J. 1132

Orbits.

Magnaradze, N. G. 211
Fleckenstein, J. O. 211
Bucerius, H. 211
Bohan, N. A. 414
Samoilova-Yahontova, N. S.-Makover, S. G. 414
Elenevskaya, N. B. 415
Merman, G. A. 590
Pajares, E. 801
Meffroy, J. 802
Davis, M. S. 802
Eichhorn, H. 802
Dilgan, H. 802
*Herrick, S. 1131
Fleckenstein, J. O. 1132
Soudan, A. 1132
Meffroy, J. 1132

Figures of equilibrium.

Bragard, L. 94
Agostinelli, C. 94
Dive, P. 94
Jeffreys, H. 94
Mineo, C. 415
*Krat, V. A. 589
Ghosh, N. L. 589
Nadile, A. 801
Agostinelli, C. 1131
Bondi, H.-Lyttleton, R. A. 1131

Stellar structure.

Chatterji, L. D. 93
Jeffreys, H. 94
Lüst, R. 95
Treffz, E. 95
Fricke, W. 96
Kushwaha, R. S.-Bhatnagar, P. L. 96
Unno, W. 96
Busbridge, I. W. 96
Sorokin, V. S. 212
Feigel'son, E. M. 212
Ževakin, S. A. 212
Chatterji, L. D. 212
Bondi, H. 212
Kushwaha, R. S. 416
Camm, G. L. 590
Osterbrock, D. E. 591
Burbidge, G. R.-Burbidge, E. M. 591
*Ambarcumyan, V.A.-Mustel', È. R.-Severnyi, A. B.-Sobolev, V. V. 803
Limber, D. N. 803
Horak, H. G. 804
Plaus, G. N.-Fivel, D. I. 804
Huang, Su-Shu. 804
Gjellestad, G. 804
Helfer, H. L. 804
Levee, R. D. 912
Bandyopadhyay, G. 912
Ambarzumjan, W. A. 912
Keller, G. 1132

Cosmology. Cf. Relativity.

von Weizsäcker, C. F. 93
Lüst, R. 93
Treffz, E. 93
Maravall Casesnoves, D. 93
Zagar, F. 99
Skabicki, I. N. 415
Ogorodnikov, K. F. 415
Raychaudhuri, Amalkumar. 416
Neyman, J.-Scott, E. L. 803
*Bondi, H. 912
*Jordan, P. 1022

Special problems.

Stanyukovič, K. P. 96
Huang, Su-Shu. 765
Chandrasekhar, S. 803

ASTROPHYSICS. See: astronomy (celestial dynamics; stellar structure).

ASYMPTOTIC EXPANSIONS. See: approximations; series.

ATOMS. See: quantum mechanics.

AUTOMORPHIC FUNCTIONS. See: elliptic functions (automorphic functions).

AXIOMATICS. See: geometry (foundations); logic; probability (foundations); sets (axiomatics).

BALLISTICS.

*Popoff, K.	101	Perret, E.-Roth, E.-		Urbański, W. S.	695
Sexl, T.	101	Sänger, R.-		Leimanis, E.	695
Bolz, R. E.	101	Voellmy, H. R.	215	Kosmodem'yanskiĭ,	
de Castro Brzezicki,		Biggeri, C.	325	A. A.	1025
A.	215	Eckel, K.	325	Lotkin, M.	1026
		Paleček, E. M.	325	Bade, W. L.	1026

BANACH ALGEBRAS. See: functional analysis (normed rings).

BANACH SPACES. See: functional analysis (normed linear spaces); topology (topological spaces).

BEAMS. See: elasticity (bending of beams: structural dynamics).

BERNOULLI NUMBERS. See: differences; number theory; series (special sequences).

BERNOULLI POLYNOMIALS. See: differences; polynomials (special).

BESSEL FUNCTIONS. See: special functions (Bessel functions).

BEST APPROXIMATION. See: approximation (best approximation).

BIHARMONIC FUNCTIONS. See: harmonic functions (biharmonic functions).

BILINEAR FORMS. See: algebra: linear (quadratic forms); functional analysis (equations).

BIOGRAPHY. See: history (biography).

BIOLOGICAL PROBLEMS. Cf. Statistics (biometrics).

Rashevsky, N.	393	Rapoport, A.-		Landahl, H. D.	781
Armitage, P.	393	Rebhun, L. I.	570	Karreman, G.	781
Kendall, D. G.	394	Thews, G.	759	Hearon, J. Z.	982
Malécot, G.	394	*Li, Ching Chun.	780	Landau, H. G.-	
Marchand, H.	394	Rashevsky, N.	780	Rapoport, A.	1000
Tricomi, F. G.	570	Peyovitch, T.	780	Landau, H. G.	1000
Trucco, E.	570	Bodenheimer, F. S.-		Hearon, J. Z.	1000
Rapoport, A.	570	Schiffer, M.	781	De Donder, T.	1000
Goodman, L. A.	570	Hearon, J. Z.	781		

BIOMETRICS. See: actuarial mathematics; statistics (biometrics).

BIRATIONAL TRANSFORMATIONS. See: algebraic geometry (Cremona transformations).

BOOLEAN ALGEBRAS. See: logic (formal); partially ordered sets (Boolean algebras).

BOUNDARY LAYER. See: hydrodynamics (boundary layer; turbulence).

BOUNDARY VALUE PROBLEMS. See: differential equations (boundary value problems); functional analysis (existence theorems); harmonic functions (Dirichlet problem); heat conduction; integral equations; numerical methods (differential equations); operational calculus.

BROWNIAN MOTION. See: diffusion; probability (Markov chains).

CALCULATING MACHINES. See: numerical methods (instruments).

CALCULUS. Cf. Differentiation of fractional order; inequalities; logic (foundations); vector calculus.

*Hardy, G. H.	145	*Angot, A.	145	*Kaplan, W.	959
*Smirnov, V. I.	145	*Abdelhay, J.	959	Balasubramanian, N.	959

Evaluation of integrals.

Bückner, H.	145	Merriman, W. A.	455	Corinaldesi, E.-	
Lenz, H.	361	Fettis, H. E.	455	Trainor, L.	455
Truesdell, C.	361			Natucci, A.	959

Contour integrals, Green formulas.

Dedecker, P. 695

CALCULUS OF VARIATIONS.

*Ẑ'ngol'c, L. Ẑ. 482

General theory.

Kerimov, M. K.	291	Damkoehler, G.	661	Cooperman, P.	662
Bononcini, V. E.	482	Flodin, B.	661	Karush, W.	662
Viola, T.	483	Mancill, J. D.	661	Vagner, V. V.	1016, 1124
Stampacchia, G.	483	Pennisi, L. L.	661	Tokarev, P. I.	1124

Multidimensional.

Sigalov, A. G.	291	Glansdorff, P.	662	Kerimov, M. K.	885
Danskin, J. M., Jr.	292	Viola, T.	769	Morrey, C. B., Jr.	992
Cesari, L.	292	Chellevold, J. O.	769		
Magenes, E.	292	Sigalov, A. G.	769		

Isoperimetric problems. Cf. Isoperimetric problems.

Karush, W. 662

Topological problems.

Cesari, L. 292 Fet, A. I. 992

Minimal surfaces. Cf. Differential geometry (minimal surfaces).

Lewy, H.	168	Reifenberg, E. R.	629	Finn, R.	885
Bers, L.	292	Lewy, H.	662	Heinz, E.	885

Special problems.

De Giorgi, E.	291	Hammersley, J. M.	769	Bellman, R.-	
*Weinstock, R.	661	Koopman, B. O.	769	Glicksberg, I.-	
				Gross, O.	885

CAPACITY. See: polynomials (polynomial approximations); potential theory (capacity constants).

CARTOGRAPHY. See: differential geometry (special mapping problems).

CAUCHY INTEGRAL AND THEOREM. See: functions of complex variables.

CELESTIAL MECHANICS. See: astronomy.

CHARACTERISTIC VALUES. See: algebra: linear (characteristic values); differential equations (boundary value problems); functional analysis (existence theorems); integral equations; numerical methods (systems; differential and integral equations).

CHARACTERS. See: groups; number theory.

CIRCLES AND SPHERES, GEOMETRY OF. See: differential geometry (Laguerre geometry); geometry (geometry of the circle; lines).

CIRCUITS. See: electricity (networks).

CLASS FIELDS, CLASS NUMBERS. See: number theory (class fields).

COMBINATORIAL ANALYSIS. Cf. Number theory (elementary); probability theory (elementary); statistics (analysis of variance and design of experiments).

Harshbarger, B.-Davis, L. L. 5
Mann, H. B. 5
Andree, R. V. 124
Bose, R. C.-Connor, W. S. 124
Bush, K. A. 123
Rivier, W. 234
Thrall, R. M. 234
Shrikhande, S. S. 235
Norton, D. A. 235
Maak, W. 345
Carlitz, L. 346
Ryser, H. J. 346
Hall, M., Jr. 350
Patterson, H. D. 392
Gruder, O. 442
Yamamoto, K. 442
Bose, R. C.-Bush, K. A. 442
Connor, W. S. 442
Errera, A. 442
Popadić, M. S. 528
García Pradillo, J. 610
Yamamoto, K. 610
Bose, R. C. 610
Roy, Purnendu Mohon 610
Kishen, K.-Rao, C. R. 715
Green, B. F. 715
Harary, F.-Uhlenbeck, G. E. 836
Nair, K. R. 836
Greenwood, R. E. 939
Neville, E. H. 1000
Mann, H. B.-Ryser, H. J. 1053
Davis, R. L. 1053
Braumann, P. B. T. 1053
Tenca, L. 1054

COMPARISON AND OSCILLATION THEOREMS. See: differential equations (ordinary linear).

COMPLETE SETS OF FUNCTIONS. See: approximation (completeness theorems).

COMPLETELY MONOTONE FUNCTIONS AND GENERALIZATIONS. Cf. Convex functions; integral transforms (Laplace integrals); moments.

Whitney, A. M. 732
Aissen, M.-Schoenberg, I. J.-Whitney, A. M. 732
Edrei, A. 732, 853
Boas, R. P. 853
Obrechkoff, N. 958

COMPLEX FUNCTIONS. See: functions of complex variables.

COMPLEX MULTIPLICATION. See: elliptic functions (complex multiplication).

COMPLEX SPACE. See: geometry (geometry in the complex domain).

COMPUTING MACHINES. See: numerical methods (instruments).

CONFIGURATIONS. See: geometry (configurations).

CONFORMAL DIFFERENTIAL GEOMETRY. See: differential geometry (conformal).

CONFORMAL MAPPING. See: differential geometry; functions of complex variables.

CONIC SECTIONS. See: geometry (elementary; projective).

CONJUGATE FUNCTIONS. See: Fourier series (conjugate functions); integral transforms (Hilbert transforms).

CONSTRUCTIONS. See: geometry (theory of constructions); logic (formal).

CONTACT TRANSFORMATIONS. Cf. Differential equations (infinitesimal transformations); differential geometry; groups (continuous).

Hlavatý, V. 206
Schouten, J. A.-van der Kulk, W. 583
Iwata, G. 603
Togliatti, E. 685
Finzi, A. 685
Bouligand, G. 900
Takano, K. 1122
Davies, E. T. 1122

CONTINGENT. See: differential geometry (set-theoretical methods); functions of real variables (differentiation).

CONTINUED FRACTIONS AND GENERALIZATIONS.

General theory.

Stöhr, A. 24
Bergmann, G. 360
Furinhs, J. 464
Puig Adam, P. 626
MacNerney, J. S. 626
Frank, E. 635
Targonszky, G. I. 736
Cugiani, M. 846
Stöhr, A. 855
Lane, R. E. 1079
Lane, R. E. 1080

Special continued fractions.

Mohr, E. 1080

CONTINUED FRACTIONS AND GENERALIZATIONS. (Continued)

Number-theoretical applications. Cf. Diophantine approximations; number theory.

Kuipers, L.-Meulenbeld, B. 23
Srinivasan, M. S. 360
Koksma, J. F. 360
Macon, N. 454
Pipping, N. 836
LeVeque, W. J. 850

Approximation by continued fractions. Cf. Diophantine approximations.

Scott, W. T. 266

CONTINUOUS GROUPS. See: groups (continuous).

CONTINUUM, PROBLEM OF. See: sets (transfinite numbers).

CONVERGENCE IN MEAN. See: approximation; Fourier integrals (summability); Fourier series (convergence); functional analysis; polynomials (polynomial approximation); series (convergence).

CONVEX BODIES AND SETS. Cf. Differential geometry (differential geometry in the large; deformation); isoperimetric problems; number theory (geometry of numbers; lattice points).

Bambah, R. P.-Roth, K. F. 22
Straus, E. G.-Valentine, F. A. 75
Davenport, H. 75
Ohmann, D. 76
Zalgaller, V. A. 76
*Yaglom, I. M.-Boltyanskiĭ, V. G. 197
Hadwiger, H. 198
Pogorelov, A. V. 203
Drandell, M. 309
Rado, R. 309
Levi, F. W. 309
Favard, J. 309
Dirac, G. A. 309
Sydler, J.-P. 309
Hadwiger, H. 309
Pogorelov, A. V. 401
Kneser, H. 478
Fenchel, W. 495
Green, J. W. 495
Santaló, L. A. 495
Hodges, J. L., Jr. 495
Hadwiger, H. 495
Swinnerton-Dyer, H. P. F. 540
Scherk, P. 541
Gaddum, J. W. 576
Van Heijenoort, J. 577
Pogorelov, A. V. 577
Aleksandrov, A. D. 577
Lorch, E. R. 657
Rankin, R. A. 678
Hammer, P. C. 678
Klee, V. L., Jr. 678
Lorch, E. R. 678
Kubota, T. 678
Süss, W. 679
Pogorelov, A. V. 679
Hadwiger, H. 679
Eggleston, H. G. 679
Thüring, R. 679
Hammer, P. C.-Sobczyk, A. 787
Gale, D. 787
Hadwiger, H. 787
Sholander, M. 787
Molnár, J. 788
Ohmann, D. 788
Soós, G. 788
Santaló, L. A. 788
Eggleston, H. G. 896
Radziszewski, C. 896
Bordoni, P. G. 897
Rogers, C. A. 965
Klee, V. L., Jr. 989
Tagamlitzki, Y. 989
Inzinger, R. 989
Arrow, K. J.-Barankin, E. W.-Blackwell, D. 998
Busemann, H.-Kelly, P. J. 1008
Prachar, K. 1066
Ohmann, D. 1114
Hadwiger, H. 1114
Motzkin, T. S.-Straus, E. G.-Valentine, F. A. 1115
Rodríguez Vidal, R. 1115

CONVEX FUNCTIONS. Cf. Completely monotone functions; harmonic functions (subharmonic functions); inequalities.

*Yaglom, I. M.-Boltyanskiĭ, V. G. 197
Mohr, E. 254
Hyers, D. H.-Ulam, S. M. 254
Green, J. W. 254
Hammersley, J. M. 387
*Pogorelov, A. V. 400
Pogorelov, A. V. 401
Ostrowski, A. 635
Anastassiadis, J. 761

CORRELATION. See: statistics (correlation).

COSMIC RAYS. See: geophysics (cosmic rays).

COSMOLOGY. See: astronomy (cosmology).

COVERING SURFACES. See topology (covering surfaces).

COVERING THEOREMS. See: sets (covering theorems).

CREMONA TRANSFORMATIONS. See: algebraic geometry (Cremona transformations).

CRYSTALLOGRAPHY. See: groups (crystallography).

CURVES. See: algebraic geometry; calculus (applications); differential geometry; functions of real variables (differentiation); geometry: topology.

CYLINDER FUNCTIONS. See: special functions (Bessel functions).

DEFINITE INTEGRALS. See: calculus (evaluation of integrals).

DEMOGRAPHY. See: actuarial mathematics (analysis of mortality); statistics (biometrics).

DENJOY INTEGRALS. See: measure and integration (Denjoy theory).

DERIVATIVES, THEORY OF. See: functions of real variables (differentiation); measure and integration (abstract theory).

DESCRIPTIVE GEOMETRY.

Beskin, N. M. 575
Cetverukin, N. F. 575
Sutor, J. 589
*Piazzolla Beloch, M. 785

DETERMINANTS. See: algebra: linear (matrices; special matrices); numerical methods (systems of linear equations).

DIFFERENCES: FINITE. Cf. Interpolation; numerical methods (differences).

*Gel'fond, A. O. 759

Summation formulas.

Carlitz, L. 973

Difference equations.

Lawden, D. F. 285
Hahn, W. 478
Mišoň, K. 478
Leont'ev, A. F. 478
Aizenštat, N. D. 588
Motzkin, T. S.-Wasow, W. 693
Berezanskiĭ, Yu. M. 746
Fort, T. 750
Rosenbloom, P. C. 800
Sobolev, S. L. 987
Jarden, D. 987
Kamynin, L. I. 1090

Generalized difference equations.

Cf. Differential equations (applications of integral transforms); functional equations; special functions (functions defined by functional equations).

*Myškis, A. D. 52
Minorsky, N. 53
Kamynin, L. I. 283
Myškis, A. D. 285
Mirolyubov, A. A. 285
Popken, J. 285

DIFFERENTIAL EQUATIONS. Cf. Astronomy; calculus of variations; contact transformations; differences (generalized difference equations); differential geometry; elasticity; functional analysis (existence theorems); hydrodynamics; integral equations; invariants (differential); mechanics; numerical methods (differential equations); operational calculus.

Gonzales, M. O. 556
Cinquini, S. 637

Elementary methods of integration.

Sarantopoulos, S. B. 169
Levi, B. 755

Algebraic equations.

Valiron, G. 376
Jaeger, A. 530
Valiron, G. 546
Raševskiĭ, P. K. 649
Fort, T. 750
Kasch, F. 841

Formal theory.

Kamynin, L. I. 172
Kawada, Y. 410
Stevenson, A. F.-Bamali, W. A. 472
Thomas, J. M. 558
Cohn, G. I.-Saltzberg, B. 647
Mikeladze, Š. E. 649
Brock, J. E. 874
Duncan, W. J. 874

Ordinary equations: existence and behavior of solutions.

Germay, R. H. 46, 47
Hayashi, K.-Yoshizawa, T. 47
Viswanatham, B. 47
Lož', F. S. 47
Persidskiĭ, K. 47
Gorŝin, S. 48
Reĭetov, M. R. 48
Harasahal, V. 48
Malkin, I. G. 48
Barbuti, U. 49
Rellich, F. 49
Ważewski, T. 49
Mitropol'skiĭ, Yu. A. 49
Atkinson, F. V. 50
Hartman, P. 50
Sternberg, R. L. 50
Taam, Choy-Tak. 50
Aymerich, G. 100
Viswanatham, B. 169
Coddington, E. A.-Levinson, N. 169
Rouquet la Garrigue, V. 169
Butlewski, Z. 169
Malkin, I. G. 170
Burton, L. P. 170
Barbuti, U. 170
Hartman, P.-Wintner, A. 170
Reeb, G. 170
Sestini, G. 170
Minorsky, N. 170
Staržinskiĭ, V. M. 170
Cohen, H. 171
Wittich, H. 171
Katô, T. 274
Stebakov, S. A. 274
Grobman, D. M. 274
Richard, U. 274
Manacorda, T. 275
Malkin, I. G. 275
Solncev, Yu. K. 275
Gavrilov, N. I. 275, 276
Haacke, W. 276
Hayashi, C. 276
Vinograd, R. E. 276
Volosov, V. M. 276
Bojanić, R. 375
Viktorovskiĭ, E. E. 375
Kamke, E. 375
Germay, R. H. 375
Cafiero, F. 375
Krasovskiĭ, N. N. 376
Vinograd, R. E. 376
Erugin, N. P. 376
Barbašin, E. A. 376
Kunin, I. A. 376
Turrittin, H. L. 377
Tihonov, A. 377
Uno, T.-Yokomi, R. 377
Volpato, M. 378
Noto, S. 404
Hukuhara, M. 470
Whyburn, W. M. 470
Markus, L. 471
Haas, F. 471
Gallissot, F. 471
Erugin, N. P. 471
*Dubošin, G. N. 471
Dubošin, G. N. 471
Papuš, P. N. 472
Kulikov, N. K. 472
Manacorda, T. 472

Ordinary equations: existence and behavior of solutions. (Continued)

Fuller, F. B. 556
DeBaggis, H. F. 557
Lefschetz, S. 557
McCarthy, J. 557
Taam, Choy-tak. 557
Hille, E. 557
Conti, R. 558
Cinquini-Cibrario, M. 627
Besicovitch, A. S. 645
Markus, L. 645
Zwirner, G. 645
Germay, R. H. 645
Gates, L. D., Jr. 645
Caligo, D. 645
Evans, R. L. 645
Gradšteĭn, I. S. 645
Hartman, P.-Wintner, A. 645
Markus, L. 646
Ascoli, G. 646
Taam, Choy-Tak. 646
Yakubovič, V. A. 646
Haacke, W. 646
Barbašin, E. A.-Krasovskiĭ, N. N. 646
Yoshizawa, T. 649
Avakumović, V. G. 649
Krein, M. G. 649
Saltykow, N. 650
Ferretti, B. 659
Caccioppoli, R. 659
Cooperman, P. 662
Germay, R. H. 750
Garnier, R. 751
Markus, L. 751
Duff, G. F. D. 751
Antosiewicz, H. A. 751
Gočbunov, A. D. 751
Dyhman, E. I. 751, 752
Tulegenov, B. 752
Krasovskiĭ, N. N. 752
Dubošin, G. N. 752
Gorŝin, S. 752
Eriov, B. A. 752
Nemyckiĭ, V. V. 753
Persidskiĭ, K. 753
Harasahal, V. 753
Reĭetov, M. 753
Ibraiev, H. I. 754
Harasahal, V. 754
Hartman, P. 754
Staržinskiĭ, V. M. 754
de Schwarz, M. J. 783
Wittich, H. 873
Taam, Choy-Tak. 873
Hayashi, C. 874
Inaba, M. 882
Gilvarry, J. J. 916
Hukuhara, M. 981
Krein, M. G. 981
Grabar', M. I. 981
Amerio, L. 982
Tihonov, A. N. 1085
Gradšteĭn, I. S. 1085, 1086
Vasil'eva, A. B. 1086
Volosov, V. M. 1086
Andreev, A. F. 1086
Krasovskiĭ, N. N. 1087
Šimanov, S. N. 1087

Ordinary linear equations.

Bruno, A. 169
Štokalo, I. Z. 169
Lyra, G. 170
Montaldo, O. 277
Krein, M. G. 277
Morris, J. 376
Vinograd, R. E. 376
Turrittin, H. L. 377
Hahn, W. 556
Frei, M. 556
Russo, S. 556
Hinds, A. K.-Whyburn, W. M. 556
Miller, K. S. 556
Pollaczek, F. 556
Bückner, H. 648
Kito, F. 648
Mikeladze, Š. E. 649
Fort, T. 750
Hartman, P. 754
*Lappo-Danilevsky, J. A. 873
Šul'gin, M. F. 873
Pöschl, K. 873
Jacobsthal, E. 874
Thomas, J. 981
Hearon, J. Z. 982
Germay, R. H. 1087

Nonlinear oscillations.

Cf. Elasticity (wave propagation); hydrodynamics (wave propagation); mechanics (oscillations).

Mitropol'skiĭ, Yu. A. 49
Reeb, G. 170
Minorsky, N. 170
Hayashi, C. 276
Smith, R. A. 276
Dragilev, A. V. 377
Blaquière, A. 472
Munakata, K. 557
Colombo, G. 557
Conti, R. 558
Schaffner, J. S. 558
Roberson, R. E. 558
Cartwright, M. L. 647
Klotter, K.-Pinney, E. 647
Zlámal, M. 647
Seifert, G. 647
Dolgolenko, Yu. V. 648
Aizerman, M. A. 648
Bautin, N. N. 648
Staržinskiĭ, V. M. 754
A. 754
Staržinskiĭ, V. M. 754
Colombo, G. 754
Wu, M. H. Lee. 754
Aymerich, G. 874
Hayashi, C. 874
De Castro, A. 874
Manaresi, G. 874
Mizohata, S.-Yamaguti, M. 874
Mizohata, S. 874
Reeb, G. 876
Klotter, K. 908
Coddington, E. A.-Levinson, N. 981
Obi, C. 982
de Castro Brzezicki, A. 982
Hayashi, C. 1087
Grafli, D. 1087
Obi, C. 1087
Savinov, G. V. 1087

Ordinary equations: special types.

Cf. Ballistics; calculus (applications); special functions.

Miller, J. C. P. 49
Roberson, R. E. 171
Humblet, J. 171
Gavurin, M. K. 276
Stöhr, A. 277
Uno, T. 377
Uno, T.-Yokomi, R. 377
Nordon, J. 378
Terracini, A. 378
Thomas, J. M. 558
Klamkin, M. S. 558
Seifert, G. 647
Popov, B. S. 648
Bakaev, Yu. N. 648
Huber, A. 649
Kolĭyakov, N. S. 754
Höllinger, E. 874
Otsuki, T. 874
Jones, C. W. 875
Hines, C. O. 875
Bargmann, V. 875
Laurikainen, K. V. 875
Caligo, D. 982
Popov, B. S. 983
Magnus, W. 1087
Fogel, K.-G. 1087

Total equations, Pfaff problem.

Mendès, M. 171
*Segre, B. 208
Checcucci, V. 277
Birindelli, C. 378
Gallissot, F. 378
Kawada, Y. 410
Gallissot, F. 471
Schouten, J. A.-van der Kulk, W. 583
Lotze, A. 583
Saltykow, N. 650
Gillis, P. P. 755
Reeb, G. 876
Pini, B. 1088
Reeb, G. 1113

Partial equations: first order, systems, etc.

Myškis, A. D. 51
Rašajski, B. 172
Persidskiĭ, K. 172
Markus, L. 172
Conti, R. 172
Volpato, M. 378
Cinquini, S. 378
Bajada, E. 378
Mönnig, P. 379
Rachajsky, M. B. 379
*Krilov, A. N. 559
Lukomskaya, M. A. 650
Volpato, M. 650
Saltykow, N. 650
Rachajsky, B. 651
Brewster, J. P. 983
Gagua, M. B. 1075
Karapandjitch, D. 1089
Baiada, E. 1089
Cinquini Cibrario, M.-Cinquini, S. 1089

Partial equations: second order: general theory.

Il'in, V. P. 25
Kiro, S. N. 52
Manfredi, B. 173
Pogorelov, A. V. 203
Bicadze, A. V. 280
Heilbronn, G. 477
Protter, M. H. 281
Bergman, S. 382
Neamtan, S. M.-Vegt, E. 382
Molčanov, A. M. 473
*Saltikov, N. 559
*Krilov, A. N. 559
Lukomskaya, M. A. 650
Saltykow, N. 650, 651
Pólya, G. 656

DIFFERENTIAL EQUATIONS. (Continued)

Partial equations: second order: elliptic. Cf. Elasticity; electricity; harmonic functions; hydrodynamics; potential theory.

Moon, P.-Spencer, D. E. 173
Višik, M. I. 174
Gårding, L. 174
Browder, F. E. 174
Pini, B. 175
Miranda, C. 175
Drăganu, M. 175
Nakamori, K. 176
Herglotz, G. 176
Sambasiva Rao, P. 176
Weinstein, A. 176, 177
Germain, P.-Bader, R. 177
Germain, P. 177
Conti, R. 178
Avakumović, V. G. 278
Bochner, S. 279
Hornich, H. 279
Miranda, C. 279
Gilbarg, D. 279
Hopf, E. 279
Višik, M. I. 279
Oleĭnik, O. A. 280
Hopf, E. 280
Ladyženskaya, O. 280, 281
Bicadze, A. V. 281
Agostinelli, C. 373
Myškis, A. D. 379
Židus, D. M. 379, 380
Germain, P.-Bader, R. 380
Cole, J. D. 380
Ladyženskaya, O. A. 381
Višik, M. I. 473
Browder, F. E. 473
Kalandiya, A. I. 474
Grosberg, Yu. I. 474
Ladyženskaya, O. 474
Gagua, M. E. 542
Fichel, B. 558
Cooperman, P. 559
Oleĭnik, O. A. 560
Feller, W. 561
Pleijel, A. 561
Collatz, L. 588
Ward, G. N. 651
Šapiro, Z. Ya. 652
Višik, M. I. 652
Simonoff, N. 652
Lopatinskiĭ, Ya. B. 652
Vol'pert, A. I. 652
Gårding, L. 653
Malmheden, H. 653
Protter, M. H. 654
Frankl', F. I. 654
Germain, P.-Bader, R. 654
Sobolev, S. L. 655
Myškis, A. D. 656
Povzner, A. Ya. 755
Moon, P.-Spencer, D. E. 756
Seth, B. R. 757
Karol', I. L. 757
*Bergman, S.-Schiffer, M. 876
Tautz, G. L. 876, 877
Kamenomostskaya, S. L. 877
Kahan, T. 877
Kupradze, V. D. 877
Keller, J. B. 877
Moshinsky, M. 877
Duff, G. F. D. 903
Brousse, P. 984
Garabedian, P. R.-Schiffer, M. 984
Browder, F. E. 984
Hellwig, G. 985
Haack, W. 985, 986
Nitsche, J. 986
Bochner, S. 986
Pucci, C. 986
Kupradze, V. D. 1039
Šatašvili, S. H. 1039
Pucci, C. 1090
Višik, M. I. 1090
Garnir, H. G. 1090
Gel'fand, I. M. 1091

Partial equations: second order: parabolic. Cf. Diffusion; elasticity; heat conduction; hydrodynamics.

Fulks, W. 51
Tranter, C. J. 51
Ciliberto, C. 51
Kamynin, L. I. 172
Hirschman, I. I., Jr. 172
Nagumo, M.-Simoda, S. 172
Kampé de Fériet, J. 173
Barenblatt, G. I.-Levitan, B. M. 173
Roach, D. 173
Magenes, E. 282
Ficken, F. A. 282
Landis, E. M. 283
Kamynin, L. I. 283
Atkinson, F. V. 381
García, G. 381
Sestini, G. 381
Stampacchia, G. 483
Blackman, J. 475
Paterson, S. 476
Sestini, G. 476
Sneddon, I. N. 476
Krüger, M. 476
Yih, Chia-Shun. 476, 477
Ryaben'kiĭ, V. S. 477
Wassermann, G. D. 560
Dacev, A. B. 560
Yosida, K. 560
Feller, W. 561
Ciliberto, C. 651
Gandin, L. S.-Soloveičik, R. E. 651
Krzyżański, M. 651
Pignedoli, A. 655
Reuter, G. E. H.-Ledermann, W. 757
Hille, E. 758
Kamenomostskaya, S. L. 877
Feller, W. 983
Rozenberg, M. D. 983
Vodička, V. 983
Browder, F. E. 984
Hellwig, G. 985
Pucci, C. 986
Prodi, G. 1089
Nirenberg, L. 1089
Yosida, K. 1089
Kamynin, L. I. 1090
Fulks, W. 1090
Manfredi, B. 1090
Zlateff, I. 1090
Pucci, C. 1090

Partial equations: second order: hyperbolic. Cf. Elasticity (wave propagation); electricity (waves); geophysics; hydrodynamics (wave propagation); hydrodynamics, aerodynamics (perfect fluids: compressible); potential theory.

Riz, P. M. 52
Cydzik, P. V. 52
DeDonder, T. 52
Drăganu, M. 175
van den Dungen, F. H. 176
Díaz, J. B.-Martin, M. H. 176
Weinstein, A. 176, 177
Germain, P.-Bader, R. 177
Germain, P. 177
Chang, Chieh-Chien.-Werner, J. 178
Conti, R. 178
Owens, O. G. 178
Ladyženskaya, O. A. 280, 281
Bicadze, A. V. 281
Cinquini-Cibrario, M. 281
Eichler, M. 281
Günther, P. 282
Germain, P.-Bader, R. 380
Cole, J. D. 380
Ladyženskaya, O. 380, 381
Sauer, R. 381
Miles, J. W. 474
Jones, D. S. 474
Povzner, A. Ya. 474
Ladyženskaya, O. 474
*Hadamard, J. 474
Hartman, P.-Wintner, A. 475
Pini, B. 475
Ryaben'kiĭ, V. S. 477
*Sauer, R. 559
Sobolev, S. L. 465
Ward, G. N. 651
Protter, M. H. 654
Frankl', F. I. 654
Germain, P.-Bader, R. 654
Douglis, A. 655
Zwirner, G. 655
Volkov, D. M. 655
Olevskiĭ, M. N. 655
Pignedoli, A. 655
Berezanskiĭ, Yu. M. 746
Courant, R.-Isaacson, E.-Rees, M. 756
Schmidt, A. 756
Fourès-Bruhat, Y. 756
Yosida, K. 757
Karol', I. L. 757
Gårding, L. 878
Vallander, S. V. 878
Pogorzelski, W. 987
Bureau, F. 1091
Babukov, A. G. 1091
Martin, M. H. 1091
Ladyženskaya, O. A. 1130

Partial equations of higher order. Cf. Elasticity; hydrodynamics.

Augé, J. 52
Halilov, Z. I. 178
Fridlender, V. R. 284
Kokareva, T. A. 284
Gerasimenko (Kuznecova), L. V. 284
Salehov, G. S. 284
Lyance, V. É. 285
Schmidt, A. 285
Davis, R. B. 382
Ryaben'kiĭ, V. S. 477
Leray, J. 477
*Krilov, A. N. 559
Saltykov, N. 650
Berg, P. W.-Lax, P. D. 653
Sobolev, S. L. 655
Garnir, H. G. 656
Zautykov, O. A. 759
Rosenberg, M. D. 983

DIFFERENTIAL EQUATIONS. (Continued)

Partial equations: special types. Cf. Special functions.

Kalandiya, A. I. 334
Kupradze, V. D. 336
Vekua, I. N. 336
Šatašvili, S. H. 336
Taazi Cattabianchi, L. 477
*Krilov, A. N. 559
Forster, H. 1092

Infinitesimal transformations. Cf. Contact transformations.

Gallissot, F. 471
Saltykow, N. 650
Finzi, A. 685

Applications of integral transforms: ordinary and partial. Cf. Operational calculus.

Riekstyn'š, R. Ya. 51
Sarantopoulos, S. B. 169
Herrmann, A. 277
Halilov, Z. I. 379
Sneddon, I. N. 476
Krüger, M. 476
Gates, L. D., Jr. 645
Höfinger, E. 874
Grant, R. B. 983
Plainevaux, J. E. 983
Delavault, H. 1090

Boundary value and expansion problems, characteristic values: ordinary and partial. Cf. Harmonic functions (Dirichlet problem).

Rasulov, M. L. 50
Miller, K. S.-Schiffer, M. M. 50
Titchmarsh, E. C. 50
Burgat, P. 50
Humblet, J. 171
Persen, L. N. 171
Levitan, B. M. 171
Gantmaher, F. R.-Krein, M. G. 178
Hartman, P. 278
Mohr, E. 278
Seifert, G. 278
Coddington, E. A. 278
Olsson, P. O. 278
Avakumović, V. G. 278
Bucerius, H. 324
Agostinelli, C. 373
Volpato, M. 378
Pucci, C. 378
Avakumović, V. G. 378
Mohr, E. 378
Myškis, A. D. 379
Židus, D. M. 379, 380
Neĭmatan, S. M.-Vogt, E. 382
Davis, R. B. 382
Berkovitz, L. D. 464
Rubinowicz, A. 472
Stevenson, A. F.-Bassali, W. A. 472
Satoh, T. 472
Miller, K. S. 472
Putnam, C. R. 472
Hartman, P.-Wintner, A. 473
Naĭmark, M. A. 473
Molčanov, A. M. 473
Hinds, A. K.-Whyburn, W. M. 556
Miller, K. S. 556
Visvanathan, S. 558
Krein, M. G. 558
Hartman, P. 558
Fichel, B. 558
*Sauer, R. 559
Cooperman, P. 559
Pleijel, A. 561
Evans, R. L. 645
Raševskiĭ, P. K. 649
Yoshizawa, T. 649
Avakumović, V. G. 649
Krein, M. G. 649, 650
Vol'pert, A. I. 652
Gårding, L. 653
Levinson, N. 755
Miller, K. S.-Schiffer, M. M. 755
Conti, R. 755
Povzner, A. Ya. 755
Moses, H. E. 756
Borowitz, S.-Friedman, B. 756
Dingle, R. B. 756
Harazov, D. F. 764
Krein, M. G. 868
Burgat, P. 875
Morgan, G. W. 875
Greco, D. 875
Oleĭnik, O. A.-Žižina, A. I. 875
Bargmann, V. 875
Laurikainen, K. V. 875
Dorodnicyn, A. A. 876
Sarginson, K. 876
Gårding, L. 878
McEwen, W. H. 983
Browder, F. E. 984
Glazman, I. M. 1088
Wolfson, K. G. 1088
Phillips, R. S. 1088
Fage, M. K. 1088
Karaseva, T. M. 1088
Bremekamp, H. 1088
Sambasiva Rao, P. 1088

Differential operators and differential equations of infinite order. Cf. Functional analysis (operators).

Viswanatham, B. 47
Lor', F. S. 47
Persidskiĭ, K. 47
Gorŝin, S. 48
Rešetov, M. R. 48
Harasahal, V. 48
Naĭmark, M. A. 277
Coddington, E. A. 278
Fridlender, V. R. 284
Halilov, Z. I. 379
Combes, J. 647
Garnir, H. G. 656
Gel'fond, A. O. 739
Harasahal, V. 753
Klimczak, W. J. 966

DIFFERENTIAL FORMS. See: differential equations (formal theory); differential geometry; invariants (differential).

DIFFERENTIAL GEOMETRY.

*Finikov, S. P. 791
Vidal Abascal, E. 900

Set-theoretical methods (natural and finite differential geometry). Cf. Functions of real variables (differentiation); geometry (abstract metrics).

van der Waag, E. J. 83
Bouligand, G. 84
Aleksandrov, A. D. 198
Pogorelov, A. V. 401
Zaborski, Z. 497
Gaddum, J. W. 581
Bouligand, G. 900
Blumenthal, L. M. 1009
Marchaud, A. 1118
Zin, G. 1119

Classical differential geometry in general. Cf. Contact transformations.

Pöschl, T. 84
Cantoni, R. 84
Sydler, J.-P. 85
Corio, A. 85
Wong, Yung-Chow. 85
Cosniţa, C. 85
Müller, H. R. 86
*Kagan, V. F. 202
Avakumović, V. G. 202
Blanuša, D. 202
Bilinski, S. 203
Wintner, A. 203
Pogorelov, A. V. 203
Mathéev, A. 203
Knothe, H. 203
Hohenberg, F. 203
Mishra, R. S. 203
Storchi, E. 208
Klingenberg, W. 316
Muracchini, L. 316
Havlíček, K. 405
Wunderlich, W. 405
Müller, H. R. 405
Blank, Ya. P. 405
Strubecker, K. 405
Mordukhai-Boltovskoĭ, D. D. 405
Hartman, P.-Wintner, A. 406
Sauer, R. 406
Pan, T. K. 406
Goląb, St.-Wróbel, T. H. 407
Wróbel, T. H. 407
Saban, G. 407
Löbell, F. 407
Terracini, A. 408
Bukreev, B. Ya. 581
Paquet, H. 581
Nikoladze, G. 581
Lenz, H. 582
Beurling, A. 582
Hartman, P.-Wintner, A. 582, 583
Wong, Yung-Chow. 583

DIFFERENTIAL GEOMETRY. (Continued)

Classical differential geometry in general. (Continued)

Togliatti, E. 685
Finzi, A. 685
Schönhardt, E. 685
Negri, D. 685
Terrachini, A. 686
Morozova, E. A. 686
Ritter, R. 686
Schindler, J. J. 686
Nádeník, Z. 791
Nitsche, Joachim-Nitsche, Johannes 791
Graue, L. C. 792
Tuganov, N. G. 792
Löbell, F. 793
Wintner, A. 901
Pan, T. K. 901
Ulčar, J. 901
Scharff, H. 901
Kruppa, E. 901
Gifford, P. W., Jr. 1013
Goląb, S. 1013
Kruppa, E. 1013
Wunderlich, W. 1013, 1014
Lauffer, R. 1014
Ancochea, G. 1014
Petkantschin, B. 1015
Galafassi, V. E. 1116
Hartman, P.-Wintner, A. 1119
Kruppa, E. 1119
Pylarinos, O. 1121
Haimovici, A. 1121
Tharrats Vidal, J. M.ª. 1121
Blanuša, D. 1122

Kinematical methods. Cf. Mechanics (kinematics).

Müller, H. R. 86
Garnier, R. 202
Beth, H. J. E. 202
Müller, H. R. 405
Strubecker, K. 684
Müller, H. R. 1014

Special mapping problems. Cf. Geodesy (elementary).

Leibin, A. S. 581
Beckenbach, E. F.-Graham, E. W. 632
Comét, S. 737
Lenz, H. 901

Special curves and surfaces. Cf. Calculus (applications).

Winger, R. M. 315
Niče, V. 315
Sorace, O. 404
Rangaswami Aiyer, K. 404
Jonas, H. 497
Süss, W. 679
Hohenberg, F. 684
Green, J. W. 685
Löbell, F. 793
Niče, V. 900, 901
Bereis, R. 901
Goormaghtigh, R. 1013
Jha, P. 1013
Wunderlich, W. 1013, 1014

Minimal surfaces. Cf. Calculus of variations (minimal surfaces).

Nitsche, J. 86
Hohenberg, F. 203
Klingenberg, W. 206
Jonas, H. 497
Hopf, E. 1119

Families and nets of curves, webs.

Jonas, H. 84
Van Bouchout, V. 84
Kagan, V. F. 202
McDonald, J. 204
Šul'man, T. A. 316
Graiff, F. 316
Muracchini, L. 316
Vaona, G. 316
Noto, S. 404
Teixidor, J. 406
Blaschke, W. 497
Muracchini, L. 685
Barner, M. 793
Cahtauri, A. I. 902
Dubnov, Ya. S. 1014
Hartman, P.-Wintner A. 1014
Bartsch, H. 1119
Cahtauri, A. I. 1120
Jeger, M. 1130

Differential line geometry. Cf. Geometry (lines).

Roşca, R. M. 84
Krishna, S. 204
Löbell, F. 315
Sakellariou, N. 315
Mishra, R. S. 315
Šul'man, T. A. 316
Mishra, R. S. 404
Berezina, L. Ya. 404, 405
Krishna, Shri. 581
Mishra, R. S. 581, 582
Grove, V. G. 582
Ströher, W. 685
Flora, M. 685
Semin, F. 685
Kula, M. 792
Takeda, K. 792
Rozet, O. 793
Mishra, R. S. 793
Jonas, H. 793
Biran, L. 901
Berezina, L. Ya. 902, 1120
Coutoumanos, A. 1120
Petkantschin, B. 1120
Carton, M. 1120
Legrain-Pinard. 1120

Laguerre and other sphere geometries. Cf. Geometry (lines).

Lagrange, R. 204

Geometry of lineal and higher space elements.

Inzinger, R. 85
Schneidt, M. 316
Löbell, F. 497
Hiramatu, H. 585
Ströher, W. 685

Topological problems. Cf. Topology (applications).

Bompiani, E. 1122

Differential geometry in the large, integral geometry. Cf. Convex bodies; isoperimetric problems.

Zalgaller, V. A. 76
Hadwiger, H. 198
Moór, A. 198
Müller, H. R. 198
Blanuša, D. 202
Wintner, A. 203
Pogorelov, A. V. 203
Santaló, L. A. 496
Owens, O. G. 500
Van Heijenoort, J. 577
Santaló, L. A. 577
Hopf, H.-Voss, K. 583
Pogorelov, A. V. 679
Vidal Abascal, E. 679
Santaló, L. A. 788
Grotemeyer, K.-P. 788, 789
Süss, W. 789
Krafft, M. 897
Rembs, E. 901
Pedersen, F. P. 1015
Rauch, H. E. 1015
Pogorelov, A. V. 1015
Busemann, H. 1115
Rodrigues Vidal, R. 1115
Fast, H.-Götz, A. 1116

Geometry on surfaces, characterization by intrinsic properties.

Zalgaller, V. A. 76
Nitsche, J. 86
Kagan, V. F. 202
Clement, M. D. 316
Aleksandrov, A. D. 577
Leichtweiss, K. 794
Pogorelov, A. V. 1015

DIFFERENTIAL GEOMETRY. (Continued)

Deformation of surfaces.

Yanenko, N. N. 87
Rembs, E. 203
Knothe, H. 203
*Pogorelov, A. V. 400
Egloff, W. 470
Pogorelov, A. V. 577
Berri, R. Ya. 686
Efimov, N. V. 686
Tartakovskiĭ, V. A. 687
Minagawa, T.-Rado, T. 794
Yanenko, N. N. 794
Rembs, E. 901

Riemannian geometry. Cf. Relativity; vector calculus (tensors).

Suguri, T. 86
Adati, T. 86
Yanenko, N. N. 87
Pu, P. M. 87
Sasaki, S. 87
Yano, K.-Sasaki, S. 87
Wakakuwa, H. 88
Kurita, M. 88
Patterson, E. M. 88
Yano, K. 88
Libermann, P. 88
Spencer, D. C. 89
Lichnerowicz, A. 89
Kuiper, N. H. 89
Bochner, S. 89
Sorace, O. 205
De Sloovere, H. 205
Angelitch, T. 317
Mishra, R. S. 317
Sen, R. N. 317
Nošička, F. 317
Eisenhart, L. P. 317
Adati, T. 317, 318
Tachibana, S. 408
Norden, A. P.-Cypkin, M. E. 408
Ōtsuki, T. 408
Chern, Shiing-shen-Kuiper, N. H. 408
Yano, K. 409
Guggenheimer, H. 498
Takano, K. 498
Hsiung, Chuan-Chih. 498
Hodge, W. V. D. 500
Lotze, A. 583
Castoldi, L. 583
Bompiani, E. 583
de Rham, G. 584
Mishra, R. S. 688
Botella Raduán, F. 688
Yano, K. 688
Yano, K.-Adati, T. 688
Matsumoto, M. 688
Hawley, N. S. 690
Blanchard, A. 690
Salenius, T. 794
Lopšic, A. M. 794
Fernández, G. 903
Matsumoto, M. 903
Tomonaga, Y. 903
Duff, G. F. D. 903
Graiff, F. 1015
Hartman, P.-Wintner, A. 1015
Craig, H. V.-Townsend, B. B. 1016
Petrov, A. Z. 1016
Yanenko, N. N. 1122
Sen, R. N. 1123
Kostin, V. I. 1123
Eisenhart, L. P. 1123

Conformal, affine and projective differential geometry.

Sydler, J.-P. 85
Cosnu, A. 86
Adati, T. 86
Ščerbakov, R. N. 87
Saban, G. 205
Villa, M. 205
Villa, M.-Vaona, G. 205
Muracchini, L. 205
Hlavatý, V. 206
Klingenberg, W. 206, 207
Grove, V. G. 207
Hesselbach, B. 207
Kanitani, J. 208
Takano, K. 208
Egorov, I. P. 208
Klingenberg, W. 316
Akivis, M. A. 318
Izmailov, V. D. 319
Norden, A. P. 319
Liber, A. E. 319
Lagrange, R. 399
Bol, G. 407
Barner, M. 407
Vesentini, E. 407
Bompiani, E. 407
Kanitani, J. 408
Džavadov, M. A. 498
Rozenfel'd, B. A. 498
Grove, V. G. 582
Norden, A. P. 584
Mutō, Y. 584
Littlewood, D. E. 592
Ancochea, G. 687
Barner, M. 687
Gol'dštein, L. V. 687
Wong, Yung-Chow 688
Norden, A. P. 688
Chatterjee, B. C. 688
Liber, A. E. 688
Šapiro, Ya. L. 795
Norden, A. P. 795
Yaglom, I. M. 795
Raševskiĭ, P. K. 795
Atanasyan, L. S. 796
Yano, K.-Hitosi, H. 796
Dolbeault, P. 797
Ströher, W. 902
Ancochea, G. 902
Tsuboko, M. 902
Bompiani, E. 1014
Vagner, V. V. 1016
Hiramatu, H. 1016
Cherep, R. 1121
Dalla Volta, V. 1121
Calapso, R. 1121
Mihăilescu, T. 1121
Martini, G. 1121
Ślebodziński, W. 1122
Takano, K. 1122
Davies, E. T. 1122
Schouten, J. A. 1123
Vrănceanu, G. 1123
Ruse, H. S. 1124

Paths and connections. Cf. Vector calculus (tensors).

Bochner, S. 89
Kanitani, J. 208
Takano, K. 208
Egorov, I. P. 208
Graiff, F. 316
Nošička, F. 317
Egorov, I. P. 318
Tachibana, S. 318
Takizawa, S. 319
Kanitani, J. 408
Matsumoto, M. 409
Bompiani, E. 409
Suguri, T. 409
*Kawada, Y. 410
Kosambi, D. D. 498
Tashiro, Y. 499
Schouten, J. A.-van der Kulk, W. 583
Reeb, G. 584
Libermann, P. 585
Guggenheimer, H. 585
Chaki, M. C. 585
Hiramatu, H. 585
Kawaguchi, A. 585
Kawaguchi, A.-Katsurada, Y. 586
Tsuboko, M. 794
Yano, K.-Hitosi, H. 796
Suguri, T. 902
Maruyama, T. 902
Blanchard, A. 903
Jongmans, F. 904
Bochner, S.-Yano, K. 904
Laptev, G. F. 1016
Suguri, T. 1017
Izumi, H. 1017
Tonowoka, K. 1017
Petrescu, Ş. 1123
Vrănceanu, G. 1123
Scheibe, E. 1123
Ruse, H. S. 1124
Ingraham, R. L. 1124
Rjehina, N. F. 1124
Vagner, V. V. 1124
Tokarev, P. I. 1124

Finsler spaces, abstract spaces and other generalizations. Cf. Calculus of variations (generalized); geometry (abstract metrics); vector calculus (tensors).

Kawaguchi, A.-Katsurada, Y. 88
*Nijenhuis, A. 320
Aussem, M. V. 320
Moór, A. 321
Rund, H. 420
Tonowoka, K. 499
Varga, O. 499
Rund, H. 499
Nasu, Y. 499
Owens, O. G. 500
Reeb, G. 584
Kikuchi, S. 585
Kawaguchi, A.-Katsurada, Y. 586
Kawaguchi, A.-Tandai, K. 586
Ide, S. 586
Moór, A. 589
Craig, H. V. 589
Kawaguchi, M. Jr. 690
Sasayama, H. 690
Rund, H. 797
Moór, A. 904
Horváth, J. I.-Moór, A. 914
Pedersen, F. P. 1015
Tonowoka, K. 1017
Deicke, A. 1017
Yano, S. 1125
Szmydt, Z. 1125

DIFFERENTIAL INVARIANTS. See: invariants (differential).

DIFFERENTIATION AND INTEGRATION OF FRACTIONAL ORDER.

du Plessis, N. 546 Moppert, K.-F. 957 Mambriani, A. 1071

DIFFRACTION. See: acoustics (diffraction); electricity and magnetism (diffraction).

DIFFUSION. Cf. Heat conduction; probability (Markov chains); statistical mechanics.

Frenkiel, F. N. 106 Reuter, G. E. H.- Nishimura, J.-
Crank, J. 173 Ledermann, W. 757 Kamata, K. 879
García, G. 381 Hille, E. 758 Monticelli, F. 880
Sneddon, I. N. 476 Thews, G. 759 Feller, W. 983
Yih, Chia-Shun. 476, 477 Hearon, J. Z. 781 Hearon, J. Z. 1000
Yosida, K. 560 Landahl, H. D. 781 Yosida, K. 1089
Feller, W. 561 Kourganoff, V. 879 Feller, W. 1094

DIMENSIONAL ANALYSIS

Ott, K. 114 *Sedov, L. I. 809 Vermeulen, R. 821
Braun, L.- *Wallot, J. 821 Hoffmann, B. 821
Reiner, M. 114 Polvani, G. 821 Pi Calleja, P. 1042

DIOPHANTINE APPROXIMATIONS. Cf. Continued fractions (approximations; metric theory); number theory (geometry of numbers).

Carlitz, L. 23 Schmetterer, L. 359 Cole, A. J. 956
Eggleston, H. G. 23 Apfelbeck, A. 359 Davenport, H. 956
Kuipers, L.- Kurzweil, J. 454 LeVeque, W. J. 956
Meulenbeld, B. 23 Monna, A. F. 620 Obrechkoff, N. 1067
Korobov, N. M. 144 Mahler, K. 624 Korobov, N. M. 1067
Lehner, H. 359 Descombes, R. 851

Equidistribution problems.

Korobov, N. M. 143 Gel'fond, A. O. 359 Maxfield, J. E. 851
Korobov, N. M.- Izumi, S. 553 Peck, L. G. 1066
Postnikov, A. G. 143 Kuipers, L.- LeVeque, W. J. 1067
Postnikov, A. G. 359 Meulenbeld, B. 736

Irrationality and transcendency problems.

Draxin, M. P.- Spiegel, M. R. 541 Mahler, K. 957
Griffith, J. S. 253 Redheffer, R. M. 541 Cudakov, N. G. 957
Sandham, H. F. 253 Skolem, T. 851 Churchhouse, R. F. 957
Macon, N. 454 Korobov, N. M. 852

DIOPHANTINE EQUATIONS. See: number theory (Diophantine equations).

DIRECT DIFFERENTIAL GEOMETRY. See: differential geometry (set-theoretical methods).

DIRICHLET SERIES. Cf. Almost periodic functions; Fourier integrals; number theory (theory of primes; analytic theory; analytical tools).

Shapiro, G. 21 Cowling, V. F.- Tanaka, C. 745
de Castro Brzezicki, A. 39 Piranian, G. 266 *Leont'ev, A. F. 1074
Wintner, A. 39 Carlson, F. 464 Mandelbrojt, S. 1075
Mikusiński, J. G.- 39 *Mandelbrojt, S. 542 *Chandrasekharan, K.- 39 Bohr, H. 552, 634 Minakshisundaram, S. 1077
Tanaka, C. 161 Sunyer i Balaguer, F. 738

Zeta functions and other special Dirichlet series.

Day, J. W. R. 248 Williams, G. T. 536 Salem, R. 727
Wiebelitz, R. 248 Ankeny, N. C. 622 Weil, A. 727
Rodoskiĭ, K. A. 451 Iwasaki, K. 622 Turing, A. M. 1126

DISTRIBUTION FUNCTIONS. See: Fourier integrals (Fourier-Stieltjes integrals); moments; probability (distribution functions); statistics (frequency functions).

DIVERGENT SERIES. See: series (convergence).

DIVISIONS OF SPACE. See: geometry (regular figures); groups (crystallography).

DOUBLE STARS. See: astronomy.

DYNAMICAL METEOROLOGY. See: geophysics (meteorology).

DYNAMICS. See: astronomy; mechanics; symbolic dynamics.

ECONOMICS. Cf. Actuarial mathematics (mathematics of finance); games.

Dvoretzky, A.- Bellman, R. 392 Koopmans, T. C.-
Kiefer, J.- May, K. O. 392 Reiter, S. 668
Wolfowitz, J. 301 Cherubino, S. 392 Simon, H. A. 668
Debreu, G. 301 Wold, H. 392 Gallego-Díaz, J. 779, 780
Tinbergen, J. 301 Manne, A. S. 393 Roy, R. 891
Simon, H. A. 302 Samuelson, P. A. 393 Tobin, J.- 891
Boiteux, M. 302 Malinvaud, E. 393 Houthakker, H. S. 891
Solow, R. 302 Rashevsky, N. 393 Morishima, M. 891
Herstein, I. N. 302 Hildreth, C. 668 von Stackelberg, H. 999
Gorman, W. M. 1000

EIGENVALUES. See: algebra: linear (characteristic values); differential equations (boundary value problems); functional analysis (existence theorems); integral equations; numerical methods (systems; differential and integral equations).

ELASTICITY, PLASTICITY. Cf. Geophysics; hydrodynamics (viscous fluids).

*Nielsen, J. 215 *Lohr, E. 220 *Westergaard, H. M. 513

General theory. Cf. Mechanics of continua.

Williams, E. J.- Rivlin, R. S. 513 Seĝer, A.-
Kloot, N. H. 110 Richter, H. 514 Donth, H.-
Arĭanyh, I. S. 220 Hiedermann, E.- Kochendörfer, A. 821
Slade, J. J., Jr. 221 Spence, R. D. 514 *Novozhilov, V. V. 924
Aquaro, G. 221 Pieruschka, E. 514 Caonka, P. 924
Milne-Thomson, L. M. 221 Grioli, G. 514, 515 Kulević, R. 924
*Partington, J. R. 593 Josza, F. 924
Wang, Ming Chen.- Sáenz, A. W. 601 Krettner, J. 1035
Guth, E. 224 Nardini, R. 700 Afendik, L. G. 1035
Viswanathan, K. S. 224 Pailloux, H. 816 Alumyaè, N. A. 1036

Torsion.

Timpe, A. 111 Nuttall, H. 517 Bolotin, V. V. 1146
Weinstein, A. 221 Polya, G. 626 Southwell, R. V.-
Onat, T. 223 Cattaneo, C. 701 Valsey, G. 1146
Reissner, E. 335 Ziegler, H. 819
Stepanov, R. D.- Ôkubo, H. 927
Šerman, D. I. 430 Pivovarov, A. M. 1038

Bending of beams.

van Wijngaarden, A. 222 Levi, S. 701 Nowiński, J. 1038
Ručimskiĭ, M. N. 335 Dengler, M. A.- Tekinalp, B. 1038
Tyler, C. M., Jr.- Goland, M. 820 Olszak, W. 1038
Christiano, J. G. 335 Inan, M. 926 Berti, G. 1040
Mikeladze, S. E. 517 Svirskiĭ, I. V. 1020 Gray, C. A. M. 1147

Plane stress and strain.

Tiffen, R. 110 Schmidt, K. 428 Föppl, L. 924
Belen'kiĭ, M. Ya. 111 Legendre, R. 428 Arf, C. 924
van Langendonck, T. 221 Karunes, B. 429 Conway, H. D. 1035
Prokopov, V. K. 221 Arf, C. 515 Bishop, R. E. D. 1143
Legendre, R. 333 Yu, Yi-Yuan. 515 Grinberg, G. A. 1143
Stephens, K. M. 333 Milne Thomson, L. M. 600 Grinberg, G. A. 1143
Tiffen, R. 333 Dantu. 1143
Poloĭiĭ, G. N. 333, 334 Conway, H. D. 700 Torre, C. 1143
Yu, Yi-Yuan. 334 Sokolnikoff, I. S. 817

Plates.

Baldacci, R. F. 222 Nowacki, W. 600, 601 Koltunov, M. A. 1037
Stippes, M.- Szelągowski, Fr. 601 Halilov, Z. I. 1037
Hausrath, A. H. 222 Duffin, R. J. 601 Valnberg, D. V. 1037
Fletcher, H. J.- Karunes, B. 701 Kumar, S.- 1037
Thorne, C. J. 222 Ilkova, A. G. 701 Joga Rao, C. V. 1037
Šeremet'ev, M. P. 222 Tsien, H. S. 701 Stippes, M. 1037
Kalandiya, A. I. 334 Ashwell, D. G. 702 Plantema, F. J.- 1038
Berger, E. R. 334 Schäfer, M. 817 van Alphen, W. J. 1143
Karunes, B. 429 Dean, W. R. 818 Grinberg, G. A. 1144
Funk, P.- Chandra Das, Sisir. 818 Hamel, G. 1144
Berger, E. 429 Woinowsky-Krieger, S. 818 Galimov, K. Z. 1144
Reissner, E. 429 Al'perin, I. sG. 818 Jung, H. 1144
Slobodyanskiĭ, M. G. 502 Horvay, G. 819 Conway, H. D.- 1144
Grioli, G. 515 Livesley, R. K. 819 Huang, M. K. 1144
Kalandiya, A. I. 515 Favre, H.-Gilg, B. 925 Deverall, L. I.- 1144
Kudryavcev, N. V. 516 Müller, W. 925 Thorne, C. J. 1144
Huang, M. K.- Prokopov, V. K. 925 Sen Gupta, A. M. 1144
Conway, H. D. 516 Nowacki, W.- Vodicka, V. 1144
Uflyand, Ya. S. 516 Turski, S. 1036 Klubin, P. I. 1144
Fridman, M. M. 600 Kitover, K. A. 1037 Giuliano, L. 1145
Mihlin, S. G. 600

Shells.

Kovalenko, A. D. 111 Clark, R. A.- Federhofer, K. 517
Oniashvili, O. D. 112 Gilroy, T. I.- Mihlin, S. G. 600
Adkins, J. E.- Reissner, E. 429 Böcskei, E. 700
Rivlin, R. S. 221 Galimov, K. Z. 516 Zerna, W. 700
Gol'denveizer, A. L. 334 Clark, R. A.- Ban, S. 701
Oniashvili, O. D. 334, 335 Reissner, E. 516 Kennard, E. H. 817

ELASTICITY, PLASTICITY. (Continued)

Shells. (Continued)

Csonka, P. 817
Šalšmelašvili, V. N. 925
Oniašvili, O. D. 925
Zgenti, V. S. 925
Föppl, L. 926
Parkus, H. 926
Storchi, E. 1035
Multari, H. M.-Vinokurov, S. G. 1035
Multari, H. M. 1035, 1036
Stepanov, R. D.-Curkov, I. S. 1036
Oniašvili, O. D. 1036
Nowiński, J. 1038
Langhaar, H. L. 1143
Serafimov, P. R. 1143, 1144
Galimov, K. Z. 1144

Three-dimensional problems.

Robinson, K. 111
Kovalenko, A. D. 111
Prentis, J. M. 111
Hemp, W. S. 111
Weber, C. 335
Ling, Chih-Bing-Yang, Kuo-Liang. 428
Girkmann, K.-Tungl, E. 601
Grioli, G. 701
Solyanik-Krassa, K. V. 819
Sternberg, E.-Lur'e, A. I. 1145
Sadowsky, M. A. 926
Sternberg, E.-Rosenthal, F. 926
Sternberg, E.-Eubanks, R. A.-Sadowsky, M. A. 926
Chong, F. 926
Ziemba, S. 926
Sadowsky, M. A.-Sternberg, E. 1038
Šeremet'ev, M. P. 1145
Buharinov, G. N. 1145
Lesky, P. 1145
Rostovcev, N. A. 1146
Leonov, M. Ya. 1146
Wuest, W. 1146
Behlendorff, E. 1146
Buckens, F. 1146

Elastic stability.

Oniashvili, O. D. 112
Saibel, E. 112
Stevens, G. W. H. 223
Wittrick, W. H. 223
Trösch, A. 336
Beilin, E. A.-Džanelidze, G. Yu. 336
Raher, W. 601
Rutecki, J. 601
Nowacki, W. 602
Radok, J. R. M. 602
Ashwell, D. G. 702
Neuber, H. 820
Golomb, M.-Rosenberg, R. M. 927
Norzi, L. 927
Wittrick, W. H. 927
Zisicas, G. A. 927
Eringen, A. C. 928
Wittrick, W. H. 927
Myers, D. M.-Blunden, W. R. 928
Federhofer, K. 928
Onat, E. T.-Drucker, D. C. 929
Hopkins, H. G. 930
Pflüger, A. 931
Plantema, F. J.-van Alphen, W. J. 1038
Bolotin, V. V. 1146
Kammerer, A. 1147

Structural dynamics.

Lembcke, H.-R. 112
Onat, E. T.-Prager, W. 702
Heyman, J.-Nachbar, W. 1041

Wave propagation and vibrations.

Ris, P. M. 52
Cydzik, P. V. 52
Sveklo, V. A. 112
Gutin, L. Ya. 112
Jardetzky, W. S.-Press, F. 112
Satô, Y. 113
Gerstenkorn, H. 113
Melyahoveckiĭ, A. S. 223
Šatašvili, S. H. 223
Schniašvili, R. A. 223
Maue, A.-W. 223
Viswanathan, K. S. 224
*Mikhlin, H. J. 323
Oniašvili, O. D. 335
Brodeau, A. 336
Kupradze, V. D. 336
Vekua, I. N. 336
Šatašvili, S. H. 336
Satô, Y. 337
Agostinelli, C. 373
Sakadi, Z. 430
Koiter, W. T. 430
Das Gupta, Sushil Chandra. 517
Pleijel, A. 561
Sáenz, A. W. 601
Willmeyer, H. 601
Duffin, R. J. 601
Das Gupta, Sushil Chandra. 601
Nowacki, W. 602
Polya, G. 626
Myklestad, N. O. 693
Satô, Y. 702
Ziegler, H. 819
Rahmatulin, H. A. 820
Sretenskiĭ, L. N. 820
Haskell, N. A 820
Meier, R.-Schuster, K. 820
Federhofer, K. 928
Eringen, A. C. 928
Maue, A.-W. 929
Kellis-Borok, V. I. 929
Kupradze, V. D. 1039
Šatašvili, S. H. 1039
Grammel, R. 1039
Weidenhammer, F. 1039
Panovko, Ya. G. 1040
Mapleton, R. A. 1040
Agostinelli, C. 1147
Ericksen, J. L. 1147
Kusukawa, K. 1147
Satô, Y. 1147

Special problems.

Rahmatulin, H. A. 112
Tsien, H. S. 701
van Wijngaarden, A. 927
Thomson, W. T. 1147

Plasticity. Cf. Hydrodynamics (viscous fluids).

Thomas, T. Y. 113
Seth, B. R. 113
Gaydon, F. A. 113
Kuvšinskiĭ, E. V. 113
Onat, T. 223
Mii, H. 223
Mandel, J. 224
Yamamoto, Y. 337
Oestreicher, H. L. 337
*Kammerer, A. 430
*Prager, W.-Hodge, P. G., Jr. 430
Drucker, D. C.-Greenberg, H. J.-Prager, W. 431
Craggs, J. W. 431
Franciosi, V. 431
Geiringer, H. 602
Csonka, P. 602
Lee, E. H. 602
Bishop, J. F. W. 603
Duberg, J. E.-Wilder, T. W., III. 702
Onat, E. T.-Prager, W. 702
Geiringer, H. 702
Thomas, T. Y. 820
Kondo, K. 821
Hill, R. 821
Pao, Yoh-Han-Marin, J. 929
von Mises, H. G. 929
Geiringer, H. 929
Drucker, D. C. 929
Onat, E. T.-Drucker, D. C. 929
Drucker, D. C.-Greenberg, H. J.-Lee, E. H.-Prager, W. 930
Pell, W. H.-Prager, W. 930
Hopkins, H. G. 930
Pflüger, A. 931
Inoue, N. 931
Shield, R. T. 931
Jáky, J. 931
Thomas, T. Y. 1040, 1041
De Simoni, F. 1041
Edelman, F. 1041
Green, A. P. 1041
Heyman, J.-Nachbar, W. 1041
Salvadori, M. G.-DiMaggio, F. 1042
Koiter, W. T. 1148
Kempner, J.-Pohle, F. V. 1148
Inoue, N. 1148

ELECTRICITY. Cf. Geophysics (geoelectricity).

General theory. Cf. Quantum mechanics; relativity.

Csada, I. K. 107
Berkel, B. 116
Tyabji, S. F. B. 116
Höhler, G. 117
Segre, B. 209
Foldy, L. L. 326

ELECTRICITY. (Continued)

General theory. (Continued)

Chandrasekhar, S. 424
Lee, T. D. 425
Ahiezer, A. I.-Sitenko, A. G. 432
Smith-White, W. B. 432
De Donder, Th. 433
*Sommerfeld, A. 433
Finzi, B. 519
Morpurgo, G. 520
Rickayzen, G.-Kurşunoğlu, B. 591
Pastori, M. 591
Shercliff, J. A. 596
Michael, D. H. 596
Iwata, G. 603
Ledinegg, E.-Urban, P. 604
Roglić, V. 604
*Mercier, A. 604
Malmheden, H. 653
Beck, F. 704
Marx, G. 704
Silin, V. P. 704
Gjellestad, G. 804
Helfer, H. L. 804
Taylor, N. W. 806
Krzywoblocki, M. Z. 813
Chandrasekhar, S. 813
Lehnert, B. 813
Lundquist, S. 814
Bergmann, O. 824
Power, G. 934
van Bueren, H. G. 934
Sexl, T. 934
Hines, C. O. 934
Rauch, S. E. 1044
Iwata, G. 1134
Volkov, D. M. 1150
Šehter, V. 1150
De Sloovere, H. 1150
Hampel, R. 1150

Waves and radiation. Cf. Optics.

Agostinelli, C. 115
Zeuli, T. 115
Graffi, D. 115
Heading, J.-Whipple, R. T. P. 116
Arseliès, H. 116
Schumann, W. O. 116
Weyl, H. 225
Markov, G. T. 225
Loiakov, L. N. 226
Ledinegg, E.-Urban, P. 226
Gercenštein, M. E. 226
Lewis, E. A.-Casey, J. P., Jr. 338
Schelkunoff, S. A. 338
Whitmer, R. M. 338
Kleinwächter, H. 338
Haug, A. 338
Kothari, L. S.-Bhatnagar, P. L. 338
Breitenhuber, L. 433
Agostinelli, C. 433
Dünzer, H. 433
Fettis, H. E. 455
Ronchi, L.-Toraldo di Francia, G. 518
Wait, J. R. 518
Müller, C. 518
Agostinelli, C. 518
Ortusi, J.-Simon, J.-C. 519
Hafner, E. 519
Giovanardi, I. 604
Chatterjee, S. K. 604
Miller, M. A. 604
Dike, S. H. 604
Ledinegg, E.-Urban, P. 604
Twiss, R. Q. 604
Spitzer, L., Jr. 605
Sakurai, T. 605
v. Fragstein, C. 702
Schumann, W. O. 703
Lacey, L. J. 703
Moullin, E. B.-Phillips, F. M. 703
*Brillouin, L. 704
Liebmann, G. 704
Lewin, L. 704
Saunders, W. K. 823
Hafner, E. 823
Teichmann, T.-Wigner, E. P. 823
Iijima, T. 823
Gamo, H. 823
Kacenelenbaum, B. Z. 823
Budden, K. G. 824
Hufford, G. A. 932
Magnus, W. 933
Lysanov, Yu. P. 933
Bazer, J.-Karp, S. N. 933
Weyl, H. 933
Aden, A. L. 933
Nardini, R. 1032
Müller, C. 1043
Ament, W. S. 1149
Nadile, A. 1149
Clemmow, P. C. 1149
Toraldo di Francia, G. 1149

Diffraction. Cf. Optics; acoustics (diffraction).

Senior, T. B. A. 225
Bremmer, H. 225
Fock, W. A. 337
Kontorović, M. I.-Murav'ev, Yu. K. 337
Jones, D. S. 474
Boersch, H. 517
Jones, D. S. 518
Franz, W.-Depperman, K. 518
Bekefi, G. 518
Wooton, G. A. 518
Neugebauer, H. E. J. 518
Mirimanov, R. G. 518
Twersky, V. 518
Zernov, N. V. 702
Brehovskih, L. M. 703
Pryce, M. H. L. 703
Vaneeur, J. P. 822
Miles, J. W. 822
Eckart, G.-Liénard, P. 822
Jones, D. S. 822
Kupradze, V. D. 877
Senior, T. B. A. 933
Sollfrey, W.-Shmoys, J. 933
Güttler, A. 933
Lansraux, G. 1042
Hopkins, H. H. 1043
Jones, D. S. 1043
Bouwkamp, C. J. 1148
Sollfrey, W. 1148
Twersky, V. 1149

Antennas.

Markov, G. T. 225
Kleinwächter, H. 338
Dike, S. H. 604
Kales, M. L. 1149

Potentials. Cf. Potential theory (special potentials).

Frank, E. 432
Gross, W. 519
Pavinskiĭ, P. P. 644
Weber, E. 824
Laudet, M. 824
*Ollendorff, F. 1043
Davy, N.-Langton, N. H. 1044

Networks. Cf. Operational calculus; probability theory (technical applications).

McMillan, B. 116
Fialkow, A.-Gerst, I. 116
Watanabe, S.-Oyama, K. 306
Morgan, S. P., Jr. 338
Cramlet, C. M. 338
Morgan, S. P., Jr. 434
Haacke, W. 434
Zadeh, L. A. 434
Ryder, F. L. 434
Darlington, S. 434
Tellegen, D. B. H. 434
van Est, W. T.-Overbeek, T. Th. 434
Familier, H. 519
Sakurai, T. 605
Roberts, T. E., Jr. 605
Fraenz, K. 606
Sternberg, R. L.-Kaufman, H. 606
Cetlin, M. L. 606
Lunc, A. G. 606
Steinberg, R.-Redheffer, R. M. 635
Liebmann, G. 704
Saltzer, C. 704
Vogel, T. 704
Helwig, W. F. 746
Carson, J. R. 824
Synge, J. L. 824
Gross, B. 824
Weinberg, L. 824, 825
Aymerich, G. 874
Minohata, S. 874
Payne, W. T. 1044
Percival, W. S. 1044
Haacke, W. 1044
Schwetman, H. D.-Brown, S. L. 1044
Kalin, T. A. 1044
Craven, T. L. 1044
Ikehara, S. 1044
Shea, D. W. C. 1150

Technical applications.

Kucera, J. 227
Ghosh, C. S.-Venkata Rao, P. 433
Shea, D. W. C.-Broadbent, H. N. G. 519
Stein, G. M. 604
*Gibbs, W. J. 704
Vowels, R. E. 705
Gaponov, A. V. 825
*Ollendorff, F. 1043
Gaponov, A. V. 1150

ELECTRON OPTICS. See: optics (electron optics).

ELEMENTARY DIVISORS. See: algebra: linear (characteristic values).

ELEMENTARY GEOMETRY. See: geometry (elementary).

ELIMINATION, THEORY OF. See: algebra: abstract; algebra: equations (systems); invariants (algebraic).

ELLIPTIC DIFFERENTIAL EQUATIONS. See: differential equations; electricity; functional analysis (existence theorems); harmonic functions; hydrodynamics; numerical methods (differential equations); potential theory.

ELLIPTIC FUNCTIONS AND RELATED TOPICS. Cf. Algebraic functions.

Hodge, W. V. D. 500

Elliptic functions and integrals.

Dugué, D.	33	Bergman, G.	451	*Conforto, F.	859
Watson, G. N.	43	*Tricomi, F.	468	Conforto, F.	899
Koschmieder, L.	160	Selmer, E. S.	539	Hammersley, J. M.	1018
Deuring, M.	356	Carlitz, L.	621	Zadunaisky, P. E.	1019

Abelian integrals.

Turri, T.	314	Virtanen, K. I.	743	Röhrl, H.	1076
Steiner, A.	743	Conforto, F.	899		

Theta functions.

Nassif, M.	32	Dragonette, L. A.	248	Myrberg, P. J.	262
Bochner, S.	43				

Automorphic and modular functions.

Rankin, R. A.	139	Venkataraman, C. S.	537	*Conforto, F.	859
*Hadamard, J.	156	Hua, Loo-Keng.	633	Bochner, S.	967
Newman, M.	250	Sampson, J. H.	633	Borel, A.	1077
Simons, W. H.	250	Heegner, K.	725		
Ullemar, L.	470	Myrberg, P. J.	743		

Modular groups and generalizations; fundamental domains.

Hua, L. K.-Reiner, I.	133	Lehner, J.	359	Tsuji, M.	623
Grosswald, E.	250	Siegel, C. L.	623		

ENTIRE FUNCTIONS. See: functions of complex variables.

EQUIDISTRIBUTION PROBLEMS. See: Diophantine approximations (equi-distribution problems).

EQUILIBRIUM, FIGURES OF. See: astronomy (figures of equilibrium).

ERGODIC THEORY. Cf. Measure and integration; probability (Markov chains); statistical mechanics; symbolic dynamics.

Saito, T.	59	Gel'fand, I. M.-Fomin, S. V.	660	Salenius, T.	769
Kondô, M.	186			Dowker, Y. N.	1003
Klein, M. J.	230	Tsuji, M.	742	Marczewski, E.	1070
Markus, L.	471	Markus, L.	751	Calderon, A. P.	1071
Cotlar, M.	566	Saitô, T.	769		

ERRORS, THEORY OF. Cf. Numerical methods (differences); statistics.

Krasnosel'skiĭ, M. A.-Krein, S. G.	501	Sard, A.	658	*Yakovlev, K. P.	906
		Blanc, C.	691		

ESTIMATION, STATISTICAL. See: statistics (theory of estimation, testing of hypotheses).

EULER'S FORMULA. See: differences (summation formulas); numerical methods; series (asymptotic).

EULER'S NUMBERS. See: differences; series (special sequences).

EXPANDING UNIVERSE. See: astronomy (cosmology); relativity.

EXPANSIONS OF FUNCTIONS. See: approximation.

EXTREMAL PROBLEMS. See: calculus of variations; Fourier series (extremal problems); functions of complex variables (extremal problems); inequalities; isoperimetric problems; polynomials (extremal problems).

FACTORIAL SERIES. See: series (power series).

FERMAT. See: number theory.

FIBONACCI NUMBERS. See: number theory; series (special sequences).

FIELDS. See: algebra: abstract; number theory.

FIGURES OF EQUILIBRIUM. See: astronomy (figures of equilibrium).

FINANCE, MATHEMATICS OF. See: actuarial mathematics (mathematics of finance).

FINITE GEOMETRY. See: differential geometry (set-theoretical methods); elementary geometry (geometry in fields; statistics (analysis of variance and design of experiments.

FINSLER SPACES. See: calculus of variations (generalized geometrical theory); differential geometry (Finsler spaces); geometry (Minowski geometry; abstract metrics).

FIXED POINTS. See: integral transforms (self-reciprocal functions); functional analysis (existence theorems); topology.

FORMS, THEORY OF. See: algebra: linear; number theory (theory of forms).

FOUNDATIONS. See: geometry (foundations); intuitionism; logic; philosophy; probability (foundations); sets (axiomatics).

FOUR-COLOR PROBLEM. See: topology (graphs).

FOURIER INTEGRALS. Cf. Differential equations (applications); integral transforms; number theory (analytical tools); numerical methods (practical harmonic analysis).

General theory.

Boas, R. P., Jr.	43	Singh, Udita Narayana.	746	Edmonds, S. M.	1081
Hunt, G. A.	465				

Fourier-Stieltjes integrals, distribution functions. Cf. Moments; probability (distribution functions).

Ivaĭev-Musatov, O. S.	163	Berkovitz, L. D.	371	Hewitt, E.	976
		Takeda, Z.	371		

Generalizations.

Nakamura, M.-Turumaru, T.	17	Helson, H.	246	Vilenkin, N. Ya.	617
		Levin, B. Ya.	371	Calderon, A. P.-Zygmund, A.	617
Stone, M. H.	17	Edwards, R. E.	371		
Levitan, B. M.	163	Reiter, H. J.	465	Riss, J.	940
Duffin, R. J.	163	Stone, M. H.	465		

FOURIER SERIES, TRIGONOMETRIC SERIES. Cf. Almost periodic functions; numerical methods (practical harmonic analysis).

Trigonometric polynomials.

Timan, A. F.	40	Tomić, M.	266, 267	Fejér, L.	974
Lukacs, E.-Szász, O.	161	Zarantonello, E. H.	369	Bajraktarević, M.	1068
Gahariya, K. K.	237	Tureckiĭ, A. H.	552	Turán, P.	1080
Calderon, A. P.-Klein, G.	266	Schaeffer, A. C.	631		

Extremal problems. Cf. Inequalities.

Sunouchi, G.-Yano, S.	41	Izumi, S.	553	Lalagué, P.	868
		Steinberg, R.-Redheffer, R. M.	635	Turán, P.	1080
Yano, S.	41				
Tureckiĭ, A. H.	552				

Trigonometric interpolation.

Dzyadyk, V. K.	867	Timan, A. F.	867	Divarlelĭvili, A. G.	971

FOURIER SERIES, TRIGONOMETRIC SERIES. (Continued)

Fourier coefficients, degree of approximation.

Zamansky, M. 41
Alexits, G. 370
Szász, O. 370
Young, F. H. 464
Hartman, P.-Wintner, A. 553
Szegő, G. 553
Ahiezer, N. I. 554
Whiteman, A. L. 621
Hsiang, Fu Cheng. 635
Chang, Han-Rideout, V. C. 637
Lakshmana Rao, S. K.-Ramakrishna, B. S. 637
Putnam, C. R. 659
Cacciopoli, R. 659
Edrei, A.-Szegő, G. 745
Walmsley, C. 746
Berman, D. L. 767
Boas, R. P., Jr. 867
Men'šov, D. 974
Salem, R.-Zygmund, A. 1081
Juncosa, M. L.-Young, D. M. 1081

Convergence, summability.

Bari, N. K. 40
Menšov, D. E. 40
Matsuyama, N. 41
Sunouchi, G.-Yano, S. 41
Men'šov, D. E. 161
Spiegel, M. R. 162
Yano, S. 267
Prasad, B. N.-Singh, U. N. 370
Misra, M. L. 370
Szász, O. 370
Mitchell, J. 370
Stewart, C. A. 464
Sunouchi, G. 552
Misra, M. L. 552
Yano, S. 552
Pati, T. 553
Avadhani, T. V. 553
Lorch, L. 635
Dvoreličšvili, A. G. 635
Vogel, T. 704
Men'šov, D. E. 745
Agarwal, S. S. 745
Tandori, K. 745
Singh, U. N. 745
Bari, N. K. 867
Tsuchikura, T. 868
Lalagüe, P. 868
Men'šov, D. 974
Stečkin, S. B. 974
Matsuyama, N. 974
Shapiro, V. L. 974
Dvoreličšvili, A. G. 975
Berger, E. R. 975
*Chandrasekharan, K.-Minakshisundaram, S. 1077
Arbault, J. 1080
Dvoreličšvili, A. G. 1080

Conjugate functions.

Zamansky, M. 41
Prasad, B. N.-Singh, U. N. 370
Pati, T. 553

Uniqueness theory.

Menšov, D. E. 40
Šapiro-Pyateckiĭ, I. I. 161
Men'šov, D. E. 161
Civin, P.-Chrestenson, H. E. 636
Bari, N. K. 636
Cheng, M. T. 1081

Double series.

Żak, I. E. 42
Herriot, J. G. 267
Mitchell, J. 370
Avadhani, T. V. 553
Żak, I. E. 636
Shapiro, V. L. 974
Żak, I. E. 975
Dvoreličšvili, A. G. 975

Generalized Fourier series. Cf. Approximation.

Verblunsky, S. 42
Head, J. W. 163
Levitan, B. M. 163
Marčenko, V. A. 267, 268
Berkovitz, L. D. 464
Kalinovskaya, S. S. 465
Dvoreličšvili, A. G. 635
Graves, R. E. 636
Balagangadharan, K. 636
Calderon, A. P.-Zygmund, A. 637
de Mira Fernandes, A. 975
Francesco-Saverio, R. 975
Petersen, R.-Skovgaard, H. 976

FRACTIONAL DIFFERENTIATION AND INTEGRATION. See: differentiation of fractional order.

FREQUENCY FUNCTIONS. See: probability; statistics.

FUNCTION FIELDS. See: algebra: abstract (fields); algebraic functions; number theory (analytic theory).

FUNCTIONAL ANALYSIS. Cf. Continuous geometry; differential equations (differential operators); ergodic theory; measure (abstract theory); symbolic dynamics; topology.

*Riesz, F.-Sz.-Nagy, B. 286
Nachbin, L. 563
*Fréchet, M. 656

Linear topological spaces. Cf. Algebra: abstract (topological problems).

Nikodým, O. M. 182
Donoghue, W. F., Jr.-Smith, K. T. 182
Smith, M. F. 183
Arens, R. 191
Carafa, M. 287
Van Hove, L. 287
Edwards, R. E. 287
Nevanlinna, R. 287
Berg, W. D.-Nikodým, O. M. 383
Weissinger, J. 478
Michael, E. A. 482
Arens, R. 482
Bourgin, D. G. 489
Grothendieck, A. 563
Michael, E. 563
Nikodým, O. M. 563
Köthe, G. 563
Lorentz, G. G. 564
Halperin, I. 564
Schoenberg, I. J. 564
Sebastião e Silva, J. 656
Ganapathy Iyer, V. 657
Roberts, G. T. 766
*Bourbaki, N. 880
Bonsall, F. F. 881
Temple, G. 989
Kaplan, S. 1002
Temple, G. 1071
König, H. 1072
Zeller, K. 1092
Sikorski, R. 1108

Normed linear spaces.

Gribblyum, M. M. 28
*Lyusternik, L. A.-Sobolev, V. I. 54
Albrycht, J. 55
Kračkovskiĭ, S. N.-Vinogradov, A. A. 55
Vainberg, M. M. 55
Krasnosel'skiĭ, M. A. 55
Vinokurov, V. G. 183
Sirvint, G. 183
Nakamura, M. 183
Edwards, R. E. 183
*Riesz, F.-Sz.-Nagy, B. 286
Lorch, E. R. 288
Gál, I. S. 288
Wolf, F. 288
Phillips, R. S. 383
Ramaswami, V. 384
Wermer, J. 384
Vainberg, M. M. 384

FUNCTIONAL ANALYSIS. (Continued)

Normed linear spaces. (Continued)

Pol'skiĭ, N. I. 384
Heider, L. J. 386
Fortet, R.-Mourier, E. 387
Dowker, C. H. 396
Gol'dman, M. A.-Kračkovskiĭ, S. N. 478
Atkinson, F. V. 478
Sz.-Nagy, B. 478
Dunford, N. 479
Schoenberg, I. J. 564
Miyadera, I. 564
Sz.-Nagy, B. 564
Lorch, E. R. 657
Gál, I. S. 657
Rothe, E. H. 657
Mourier, E. 662
Fourgeaud, C. 662
Shimoda, I. 766
Monna, A. F. 767
*Šilov, G. E. 881
Ôhira, K. 881
Feller, W. 881
Hille, E. 882
Phillips, R. S. 882
*Loomis, L. H. 883
Kopeć, J. 976
Mann, W. R. 988
Kato, T. 990
Williamson, J. H. 1093
Dieudonné, J. 1093
Tamura, T. 1093
Cooke, R. G. 1093
Alexiewicz, A. 1093
Alexiewicz, A.-Orlicz, W. 1093
Feller, W. 1093
Feller, W. 1094
Citlanadze, Z. S. 1094
Stein, M. L. 1094
Kračkovskiĭ, S. N. 1095
Gol'dman, M. A. 1095
Bade, W. G. 1095
Krasnosel'skiĭ, M. A. 1109

Hilbert spaces.

Kadison, R. V. 16
Los', F. S. 47
Lyusternik, L. A.-Sobolev, V. I. 54
Wermer, J. 55
Chiang, Tse-Pei. 56
Krein, M. G. 56
Dixmier, J. 69
Krull, W. 183
Tagamlickiĭ, Ya. A. 184
Fage, M. K. 184
Inzinger, R. 184
Livšic, M. S. 184, 185
Lifšic, I. M. 185
Lehto, O. 185
Schäfke, F. W. 185
Rothe, E. H. 185
Naĭmark, M. A. 277
*Riesz, F.-Sz.-Nagy, B. 286
Weston, J. D. 289
Bari, N. K. 289
Gel'fand, I. M. 289
Heinz, E. 289
Rabinovič, Yu. L. 289
Vainberg, M. M. 290
Weinberger, H. F. 290
Mimura, Y. 385
Sobolev, V. I. 385
Povzner, A. Ya. 385
Sunouchi, H. 385
Rickart, C. E. 385
Aronszajn, N. 479
Krein, M. G. 480
Fell, J. M. G.-Kelley, J. L. 480
Kelley, J. L. 481
Kadison, R. V. 481
Dixmier, J. 481
Slobodyanskiĭ, M. G. 502
Halmos, P. R. 565
Katětov, M. 565
Stone, M. H. 565
Livšic, I. M. 565
Nevanlinna, R. 658
Sard, A. 658
Davis, C. 659
Mautner, F. I. 659
Devinatz, A. 659
Ferretti, B. 659
Kato, T. 766
Halmos, P. R.-Lumer, G.-Schäffer, J. J. 767
Cook, J. M. 825
Sakai, S. 845
Šmul'yan, Yu. L. 882
Kaplansky, I. 883
Iséki, K. 883
Brownell, F. H. 963
Block, I. E. 989
Klee, V. L., Jr. 989
Tagamlitzki, Y. 989
Inzinger, R. 989
Kato, T. 990
Harazov, D. F. 990
Maurin, K. 990
Takeda, Z.-Turumaru, T. 990
Segal, I. E. 991
Krasnosel'skiĭ, M. A. 1095
Halmos, P. R. 1096
Cordes, H. O. 1096
Sz.-Nagy, B. 1096
Nakamura, M.-Takeda, Z. 1096

Other special spaces. Cf. Functions of real variables (functions in abstract spaces).

Krasnosel'skiĭ, M. A.-Rutickiĭ, Ya. B. 57
Fullerton, R. E. 57
Berman, D. L. 57
Succi, F. 57
Giorgi, G. 57
Pucci, C. 58
Geronimus, Ya. L. 166
Glicksberg, I. 288
Nachbin, L. 288
Haefeli, H. G. 386
Riesz, F. 479
Hewitt, E. 545
Ahiezer, N. I. 554
Sobolev, S. L. 565
Carleson, L. 630
Ganapathy Iyer, V. 657
San Juan, R. 657
Citlanadze, Z. S. 657
Šmul'yan, Yu. L. 658
Fáry, E. 658
Monna, A. F. 767
Schwartz, L. 767
Berman, D. L. 767
Zaanen, A. C. 767
Hewitt, E. 882
Newns, W. F. 968
Cameron, R. H.-Hatfield, C. 989

Partially ordered spaces. Cf. Partially ordered sets.

Amemiya, I. 59
Cereteli, O. D. 148
Baluev, A. N. 185
Heider, L. J. 386
Roberts, G. T. 395
Kneser, H. 478
Pták, V. 482
Yamamuro, S. 482
Hausner, M.-Wendel, J. G. 566

Normed rings, Banach algebras.

Masani, P.-Vijayaraghavan, T. 39
Gohberg, I. C. 54
Kaplansky, I. 58
Misonou, Y.-Nakamura, M. 58
Umegaki, H. 58, 59
Allen, H. S. 59
Tornheim, L. 131
Kametani, S. 240
Wendel, J. G. 246
Helson, H. 246
Takenouchi, O. 290
Buck, R. C. 290
Kaplansky, I. 291
Rickart, C. E. 385
Šilov, G. E. 385
Leibenzon, Z. L. 386
Reiter, H. J. 465
Stone, M. H. 465
Fell, J. M. G.-Kelley, J. L. 480
Kelley, J. L. 481
Newburgh, J. D. 481
Kadison, R. V. 481
Dixmier, J. 481
Michael, E. A. 482
Arens, R. 482
Misonou, Y. 566
Waelbroeck, L. 615
Dye, H. A. 659
Fuglede, B.-Kadison, R. V. 660
Dixmier, J. 660
Smiley, M. F. 660
Rickart, C. E. 660
Bonsall, F. F.-Goldie, A. W. 768
Kondô, M. 768
Iseki, K. 768
Šreider, Yu. A. 768
Charles, B. 768
Schützenberger, M. P. 768
*Loomis, L. H. 883
Bourgin, D. G. 883
Kelley, J. L.-Vaught, R. L. 883
Fukamiya, M. 884
Šilov, G. E. 884
Berezanskiĭ, Yu. M. 884
Nakamura, M.-Turumaru, T. 990
Turumaru, T. 991
Takeda, Z. 991
Matsushita, S. 991
Umegaki, H. 991
Wermer, J. 991
Segal, I. E. 991
Nakamura, M.-Takeda, Z. 1096
Blum, E. K. 1096
Koopman, B. O. 1097
Ryll-Nardzewski, C. 1097
Henriksen, M.-Isbell, J. R. 1107

Equations in infinitely many variables. Cf. Differential equations (differential operators).

Weston, J. D. 289
Plans Sanz de Bremond, A. 768
Magnus, W. 816
Maksimov, I. M. 878
San Juan, R. 988
Magnus, W. 1087
Cherubino, S. 1093

FUNCTIONAL ANALYSIS. (Continued)

Existence theorems for differential, integral and functional equations; spectral theory.

*Lyusternik, L. A.-Sobolev, V. I. 54
Valnberg, M. M. 55
Krasnosel'skiĭ, M. A. 55
Wermer, J. 55
Krein, M. G. 56
Krull, W. 183
Livšic, M. S. 184, 185
Schäfke, F. W. 185
Rothe, E. H. 185
Baluev, A. N. 185
*Riesz, F.-Sz.-Nagy, B. 286
Rabinovič, Yu. L. 289
Weinberger, H. F. 290
Schmeidler, W. 382
Pol'skiĭ, N. I. 384
Weissinger, J. 478
Gol'dman, M. A.-Kračkovskiĭ, S. N. 478
Atkinson, F. V. 478
Sz.-Nagy, B. 478
Dunford, N. 479
Aronszajn, N. 479
Krein, M. G. 480
*Sobolev, S. L. 565
Cinquini-Cibrario, M. 627
Rothe, E. H. 657
Nevanlinna, R. 658
Davis, C. 659
Mautner, F. I. 659
Ferretti, B. 659
Caccioppoli, R. 659
Haraszthal, V. 753
Rešetov, M. 753
Persidskiĭ, K. P. 753
Ibraĭev, H. I. 754
Haraszthal, V. 754
Kantorovich, L. V. 766
Collatz, L. 799
Krein, M. G. 868
Phillips, R. S. 882
Inaba, M. 882
Williamson, J. H. 1093
Citlanadze, Z. S. 1094
Stein, M. L. 1094
Kračkovskiĭ, S. N. 1095
Gol'dman, M. A. 1095
Krasnosel'skiĭ, M. A. 1095
Bade, W. G. 1095
Halmos, P. R. 1096
Cordes, H. O. 1096
Krasnosel'skiĭ, M. A. 1109
Karush, W. 1127
Lopšic, A. M. 1127

FUNCTIONAL DETERMINANTS. See: calculus.

FUNCTIONAL EQUATIONS: SPECIAL TYPES. Cf. Differences (difference equations; generalized difference equations); functional analysis (existence theorems); operational calculus; special functions (functions defined by functional equations).

Kuwagaki, A. 53
Łojasiewicz, S. 285
Kuwagaki, A. 286
Read, A. H. 286
Aczél, J. 286
Olevskiĭ, M. N. 360
Carlitz, L. 478
Bajraktarević, M. 760
Green, J. W. 760
Kuwagaki, A. 760
Pastidès, N. 761
Anastassiadis, J. 761
Parodi, M. 761
Schützenberger, M.P. 768
Boas, R. P., Jr. 987
Ewing, G. M.-Utz, W. R. 987

FUNCTIONAL SPACES. See: differential geometry (Finsler spaces); functional analysis; measure and integration; topology (topological spaces; applications).

FUNCTIONS OF COMPLEX VARIABLES. Cf. Algebraic functions; Dirichlet series; elliptic functions; Fourier integrals; integral transforms (Laplace integrals; Mellin transforms; self-reciprocal functions); harmonic functions; number theory (analytic tools).

*Fuks, B. A.-Levin, V. I. 150
*Heinhold, J. 258
*Lavrent'ev, M. A.-Šabat, B. V. 457
*Green, S. L. 458
*Knopp, K. 458
Heffter, L. 546
Simonart, F. 629
*Ahlfors, L. V. 857
*Thron, W. J. 857
*Kaplan, W. 959
*Saks, S.-Zygmund, A. 1073
*Leja, F. 1073
*Gončarov, V. L. 1073
*Knopp, K. 1073

Power series. Cf. Series (power series).

Sunyer i Balaguer, F. 31
Bellman, R. 37
Roussel, A. 37
Dalovitch, V. 151
Turán, P. 258
Agmon, S. 458
Rodheffer, R. M. 541
Adel'son-Vel'skiĭ, G. M.-Kronrod, A. S. 546
Petracca, A.-Levi, B. 546
Evgrafov, M. A. 552
Gaier, D. 737
Freud, G. 737
Roux, D. 738
Herzog, F.-Piranian, G. 738
Nobel, M. E. 738
Turán, P. 738
Duparc, H. J. A.-Lekkerkerker, C. G.-Peremans, W. 858
Erwe, F. 858
Andreas, W. R. 959
San Juan, R. 1077

Zeros. Cf. Polynomials (zeros).

Hayes, N. D. 30
Sinclair, A. 31
Waadeland, H. 150
Svirskiĭ, I. V. 150
Tôyama, H. 151
Sz.-Nagy, G. 151
Arima, K. 259
Melman, N. N. 259
Kreisel, G. 458
Talbot, A. 458
Carleson, L. 458
Varga, R. S. 546
Buck, R. C. 631
Marković, D. 965

Analytic continuation, singularities, overconvergence.

Wolibner, W. 31
Mandelbrojt, S. 31
Dahlquist, G. 151
Vekua, N. P. 151
Macintyre, A. J. 259
Tricomi, F. G. 259
Glover, I. E. 363
Wilson, R. 363
Bourion, G. 364
Agmon, S. 458
Vekua, N. P. 459
Arf, C. 515
Gahov, F. D. 629, 630
Čakvetadze, S. S. 738
Maschler, M. 745
Vekua, N. P. 968
Wolska, J. 980
Šmul'yan, Yu. L. 1073
Ponting, F. W. 1074
San Juan, R. 1077, 1078

Cauchy integral and related topics. Cf. Calculus (contour integrals).

Mitrović, D. 32
Meier, K. 150
Vekua, N. P. 151
Magnaradze, L. 152
Karcivadze, I. N.-Hvedelidze, B. V. 152
Kveselava, D. A. 152
Vekua, N. P. 153
Krikunov, Yu. M. 153
Block, I. E. 153
Cowling, V. F. 153
Hvedelidze, B. V. 181
Pidduck, F. B. 458
Beckenbach, E. F. 629
Karcivadze, I. N. 763
Vekua, N. P. 763
Aleksandriya, G. N. 764
Zin, G. 1073
Mikolás, M. 1073
Gagua, M. B. 1075

FUNCTIONS OF COMPLEX VARIABLES. (Continued)

Schwarz lemma, maximum principle, and related topics.

Iseki, K. 155
Köthe, G. 563
Gahov, F. D. 629, 630
Beckenbach, E. F.-Graham, E. W. 632

Conformal mapping: general theory.

Kolbina, L. I. 35
Kubo, T. 36
Lelong-Ferrand, J. 36
Nagura, S. 156
Fichera, G. 156
Kusunoki, Y. 156
Ahlfors, L. V. 182
Royden, H. L. 182
Hersch, J. 262
Piranian, G.-Titus, C. J.-Young, G. S. 262
Lohwater, A. J.-Piranian, G. 262
Piranian, G. 262
Gergen, J. J.-Dressel, F. G. 262
Yosida, T. 365
Buckel, W. 366
Albrecht, E. 366
Meschkowski, H. 367
Wittich, H. 367
*Lavrent'ev, M. A.-Šabat, B. V. 457
Ozawa, M. 461
Unkelbach, H. 462
Renggli, H. 462
*Bieberbach, L. 462
Položiĭ, G. N. 549
Huron, R. 549
af Hällström, G. 549
Strebel, K. 549
Szegö, G. 549
Bazilevič, I. E.-Korickiĭ, G. V. 632
Shiffman, M. 632
Courant, R. 632
Huron, R. 695
Comét, S. 737
Tsuji, M. 742
Broman, A. 742
Lelong-Ferrand, J. 742
Kreĭn, S. G. 742
Nehari, Z. 742
Lokki, O. 742
Lehto, O. 743
Schaeffer, A. C.-Spencer, D. C. 743
Kolbina, L. I. 35
Komatu, Y.-Ozawa, M. 461
Unkelbach, H. 462
Renggli, H. 462
*Bieberbach, L. 462
Položiĭ, G. N. 549
Huron, R. 549
af Hällström, G. 549
Strebel, K. 549
Szegö, G. 549
Bazilevič, I. E.-Korickiĭ, G. V. 632
Shiffman, M. 632
Courant, R. 632
Huron, R. 695
Comét, S. 737
Tsuji, M. 742
Broman, A. 742
Lelong-Ferrand, J. 742
Kreĭn, S. G. 742
Nehari, Z. 742
Lokki, O. 742
Lehto, O. 743
Schaeffer, A. C.-Spencer, D. C. 743
Schiffer, M.-Spencer, D. C. 743
Weinstein, A. 743
Bers, L. 743
Szegö, G. 860
Warschawski, S. E. 860
Bergman, S.-Schiffer, M. 860
Garabedian, P. R. 860
Nehari, Z. 861
Ahlfors, L. V.-Beurling, A. 861
Schild, A. 861
af Hällström, G. 861
Unkelbach, H. 861
Myrberg, P. J. 861
Bolder, H. 861
Paatero, V. 861
Volkovyskiĭ, L. I. 862
Heins, M. 862
Komatu, Y. 969
Gagua, M. B. 1075
Lens, H. 1076
Stallmann, F. 1076
Strebel, K. 1076

Conformal mapping: special problems and applications. Cf. Calculus of variations (minimal surfaces); differential geometry.

*Kober, H. 156
Bonder, J. 366
Goodman, A. W. 367
Consiglio, A. 367
Foritsky, H. 549
Seidel, W. 589
Cooper, E. P. 594
Stein, G. M. 604
Epheser, H.-Stallmann, F. 742
Sokolnikoff, I. S. 817
Weber, E. 824
Young, D. M. 909
Garrick, I. E. 909
Ostrowski, A. M. 909
Swinford, L. H. 909
Jacobsthal, E. 968
Waadeland, H. 968, 969
Bartels, R. C. F.-Laporte, O. 1141

Riemann surfaces, uniformization. Cf. Topology (covering surfaces).

Ohtsuka, M. 36
Röhrl, H. 154
Volkovyskiĭ, L. I. 156
Yosida, T. 157
Kobayashi, Z. 157
Tsuji, M. 157
Royden, H. L. 167
Tsuji, M. 168
Schubart, H.-Wittich, H. 260
Sagawa, A. 263
Nevanlinna, R. 263
Parreau, M. 263
Mori, A. 263, 264
Kuramochi, Z. 272
Wittich, H. 367
Radojčić, M. 367
Nagai, Y. 367
Mori, A. 367
Collingwood, E. F. 461
Ozaki, S.-Ono, I.-Ozawa, M. 461
Ozawa, M. 462
Tsuji, M. 462
Röhrl, H. 462
Fourès, I. 462
Kuroda, T. 470
Hodge, W. V. D. 500
Yûjôbô, Z. 549
Hažaliya, G. Ya. 549
Fourès, I. 550
Kusunoki, Y. 550
MacLane, G. R. 739
Virtanen, K. I. 743
Myrberg, P. J. 743
Tamura, J. 743
Nevanlinna, R. 743
Myrberg, L. 744
Taylor, H. E. 744
Volkovyskiĭ, L. I. 744
Niini, R. 744
Tietz, H. 859
Heins, M. 862
Ohtsuka, M. 862
Huber, H. 862
Sario, L. 863
Tôki, Y. 864
Ahlfors, L. V.-Royden, H. L. 864
Royden, H. L. 864
Komatu, Y.-Mori, A. 969
Tsuji, M. 969
Sario, L. 969
Habach, H. 969
Ahlfors, L. V. 970
Gerstenhaber, M. 970
Myrberg, L. 979
Stoilow, S. 1076
Flathe, H. 1076

Entire and meromorphic functions.

Nassif, M. 32
Tims, S. R. 32
Delange, H. 32
Nikol'skiĭ, S. M. 32
Singh, S. K. 33
Šteinberg, N. S. 33
Džrbašyan, M. M. 33
Lohwater, A. J. 34
Tsuji, M. 34
Milloux, H. 34
Leont'ev, A. F. 154
Littlewood, J. E. 154
Videnskiĭ, V. S. 154
Bernštein, S. N. 155
Boas, R. P., Jr. 155
Arima, K. 155
Motzkin, T. S.-Schoenberg, I. J. 157
*Berghuis, J. 258
Mursi, Z. 258
Macintyre, S. S. 259
Macintyre, A. J. 259
Tricomi, F. G. 259
Sheffer, I. M. 259
Arima, K. 259
Melman, N. N. 259
Tsuji, M. 259
Schubart, H.-Wittich, H. 260
Collingwood, E. F.-Cartwright, M. L. 260
Komatu, Y. 364
Koseki, K. 365
Shah, S. M. 365, 366
Valiron, G. 376
Ahiezer, N. I. 459
Bernštein, S. N. 459
Wigner, E. P. 460
Hervé, M. 460
Collingwood, E. F. 460, 461
Umezawa, T. 461
Ozaki, S.-Ono, I.-Ozawa, M. 461
Ozaki, S.-Ono, I. 461
Ozaki, S.-Kashiwagi, S.-Tsuboi, T. 461
Varga, R. S. 546
Valiron, G. 546
Rosenbloom, P. C. 546
Clunie, J. 547
Potyagallo, D. B. 549
Yûjôbô, Z. 549
Frei, M. 556
Combes, J. 631
Sheffer, I. M. 631
Boas, R. P., Jr. 631
Schaeffer, A. C. 631
Shah, S. M.-Ishaq, M. 631
Tricomi, F. G. 632
Combes, J. 647
Ganapathy Iyer, V. 657
Turán, P. 738
Sunyer i Balaguer, F. 738
Vermes, P. 739
Berghuis, J. 739
Wilson, R. 739
Boas, R. P., Jr. 739
MacLane, G. R. 739
Gel'fond, A. O. 739
Kuroda, T. 740
Collingwood, E. F. 740
Walsh, J. L. 741
Gel'fond, A. I. 739
Boas, R. P., Jr. 858
Siddiqi, J. A. 858
Noble, M. E. 858
Naftalevič, A. G. 858
Erwe, F. 858
Lehto, O. 858

FUNCTIONS OF COMPLEX VARIABLES. (Continued)

Entire and meromorphic functions. (Continued)

Tietz, H. 859
Pöschl, K. 873
Kjellberg, B. 965
Hayman, W. K. 965
Buck, R. C. 965, 966
Parthasarathy, M. 966
Timan, A. F. 966
Klimczak, W. J. 966
Bochner, S. 967
Tsuji, M. 968
Stoll, W. 970
Krein, M. G. 981
Sunyer i Balaguer, F. 1074
Boas, R. P., Jr. 1074
Bieberbach, L. 1074
Leont'ev, A. F. 1074

Picard theorem, distribution of values.

Finn, R. 364
Dugué, D. 741
Hiong, King-Lai. 859

Univalent functions, bounded functions and related topics.

Itô, J. 34
Valiron, G. 34
Ozaki, S. 34, 35
Bernardi, S. D. 35
Wolibner, W. 35
Kolbina, L. I. 35
Hayman, W. K. 156
Kobori, A. 156
Potugina, I. V. 260
Erwe, F. 260
Umezawa, T. 260
Carleson, L. 261
Royster, W. C. 261
Tammi, O. 366
Kubo, T. 460
R.-Salinas, B. 460
Robertson, M. S. 460
Hažaliya, G. Ya. 549
Nakashima, K. 549
Sasaki, Y. 549
Carleson, L. 630
Bazilević, I. E.- Korickiĭ, G. V. 632
Gaier, D. 737
Goodman, A. W. 739
Rahmanov, B. N. 740
Krasnovidova, I. S.- Rogozin, V. S. 740
Tammi, O. 740
Suetin, P. K. 740
Hiong, King-Lai. 741
Kuramochi, Z. 742
San Juan, R. 859
Umezawa, T. 859
Unkelbach, H. 861
Kaplan, W. 966
Jenkins, J. A. 967
Ozawa, M. 967
Thimm, W. 971
Komatu, Y.- Nagura, S. 1075
Zmorovič, V. A. 1075

Extremal problems, inequalities. Cf. Inequalities; polynomials (extremal problems).

Kolbina, L. I. 35
Wolontis, V. 36
Littlewood, J. E. 154
Bernštein, S. N. 155
Havinson, S. Ya. 155
Turán, P. 258
Kufarev, P. P.- Fales, A. E. 262
Hersch, J. 262
Tsuji, M. 364
Meschkowski, H. 367
Wittich, H. 367
Gagua, M. E. 547
Combes, J. 631
Boas, R. P., Jr. 631
Kuramochi, Z. 742
Edrei, A. 853
Havinson, S. Ya. 967
Leja, F. 1075

Normal families.

Dugué, D. 33
Bochner, S. 90
Finn, R. 364
Caccioppoli, R. 364
Tsuji, M. 549
MacLane, G. R. 741
Hiong, King-Lai. 859

Polynomial and other series expansions. Cf. Approximation; polynomials (polynomial approximations).

Röhrl, H. 154
Makar, R. H. 547
Walsh, J. L. 547
Iwata, G. 630
Mergelyan, S. N. 858
Newns, W. F. 968

Complex interpolation and approximation. Cf. interpolation.

Šteĭnberg, N. S. 33
Džrbašyan, M. M. 33
Bochner, S. 90
Kober, H. 154
Tumarkin, G. C. 154
Haplanov, M. G. 154
Videnskiĭ, V. S. 154
San Juan, R. 258
Smith, R. C. T. 258
*Berghuis, J. 258
Mursi, Z. 258
Macintyre, S. S. 259
Mergelyan, S. N. 547
Tonyan, V. A. 548
Leont'ev, A. F. 548
Walsh, J. L. 630
Vermes, P. 739
Berghuis, J. 739
Walsh, J. L. 741
Walsh, J. L.- Elliott, H. M. 741
Mergelyan, S. N. 858
Elliott, H. M. 858
Geronimus, Ya. L. 871
Davis, P. 907
Picone, M. 1067
Flathe, H. 1076

Quasi-analytic functions and monogenic functions.

Kur'mina, A. L. 38
Bochner, S. 89
San Juan, R. 157
Lalaguë, P. 158
Hirschman, I. I., Jr.- Widder, D. V. 255
*Mandelbrojt, S. 542
San Juan, R. 543
Bang, T. 626
Valverde, F. 629
Lalaguë, P. 868
Kahane, J.-P. 976
San Juan, R. 1077

Several variables.

Nikol'skiĭ, S. M. 32
Hitotumatu, S. 37
Bureau, F. 37
Bellman, R. 37
Rousel, A. 37
Chow, Wei-Liang- Kodaira, K. 37
Kodaira, K. 82
Spencer, D. C. 89
Bochner, S. 89
Motzkin, T. S.- Schoenberg, I. J. 157
Segre, B. 208
Cartan, H. 264
Oka, K. 264
Hitotumatu, S. 264
Tibiletti, C. 264
Sommer, F. 368
Mitchell, J. 368
Sauer, W. 368
Garabedian, P. R.- Spencer, D. C. 462
Leiong, P. 463
Thullen, P. 550
Temlyakov, A. A. 550
Stoll, W. 550
Hervé, M. 633
Hua, Loo-Keng. 633
Bergman, S. 632
Sampson, J. H. 633
Dolbeault, P. 673
Kundert, E. G. 682
Shimoda, I. 766
Dolbeault, P. 797
Iguna, J. 865
Bergman, S.- Schiffer, M. 865
Conforto, F. 899
Blanchard, A. 903
Stoll, W. 970
Tornehave, H. 970
Thimm, W. 971
Bremermann, H.-J. 971
Leiong, P. 971
Bochner, S.- Martin, W. T. 972
Dolbeault, P. 1006
Borel, A. 1077
Severi, F. 1077

Functions of quaternion variables. Cf. Calculus (contour integrals).

Schmidt, K. 38

FUNCTIONS OF COMPLEX VARIABLES. (Continued)

Other generalizations.

Spampinato, N. 8
Ozaki, S.-Ono, I.- Ozawa, M. 38
Stiefel, E. 38
Masani, P.- Vijayaraghavan, T. 39
Ganin, M. P. 265
Caccioppoli, R. 364
Yosida, T. 365
Ozaki, S.- Kashiwagi, S.- Tsuboi, T. 368
Haefeli, H. G. 386
Schmidt, K. 428
Legendre, R. 428
Fréchet, M. 463
Bencivenga, U. 550, 551
Kryloff, N. M. 633
Nisigaki, H. 633
Isaacs, R. 633
Shimoda, I. 766
Petracca, A.-Levi, B. 857
Wille, R. J. 865
Fréchet, M. 865
Esteban Carrasco, L. 972
Krein, M. G. 981

FUNCTIONS OF REAL VARIABLES AND GENERALIZATIONS. Cf. Calculus; completely monotone functions; convex functions; functional analysis; inequalities; measure and integration; probability (random functions).

Mendelsohn, N. S. 544
Conforto, F. 544
*Goffman, C. 855
*Rudin, W. 1070
*Gončarov, V. L. 1070
Temple, G. 1071
König, H. 1072

One real variable.

Kober, H. 24
Fast, H. 29
Pipes, C. J. 29
Masani, P. 147
Aubert, K. E. 148
Sierpiński, W. 148
Arin'ši, E. G. 148
Picone, M. 148
Cereteli, O. D. 148
Ore, O. 256
Ważewski, T. 257
Homma, T. 257
Kuipers, L. 360
Allen, A. C. 455
Nožička, F. 456
Yablonskiĭ, S. V. 545
Kametani, S. 625
Vučković, V. 625
Bajraktarević, M. 625
Lorentz, G. G. 626
Baiada, E. 628
Thielman, H. P. 628
R.-Salinas, B. 732
Eggleston, H. G. 736
Walsh, J. L. 736
Targonszky, G. I. 736
R. Salinas, B. 736
Sambo, A. 737
Kinokuniya, Y. 852
Boas, R. P., Jr. 853
Nosarzewska, M. 855
Mulè, G. 856
Arpeitis, A. G. 957
Thompson, L. D. 957
Gonçalves, J. V. 957
Andreae, W. R. 959
Good, I. J. 959
Peyovitch, T. 959
Obrechkoff, N. 1068
Mandelbrojt, S. 1068
Fürst, D. 1072
Scorza Dragoni, G. 1072
Medvedev, Yu. T. 1072
Leibenzon, Z. L. 1072
Hosemann, R.- Bagchi, S. N. 1072

Several real variables.

Greco, D. 29
Stampacchia, G. 30
Kober, H. 30
Radó, T.- Reichelderfer, P. V. 30
Kudryavcev, L. D.- Kaščenko, Yu. D. 30
Glivenko, E. V. 30
Volpato, M. 148
Kakutani, S. 149
Kondrašov, V. I. 149
Burkill, J. C. 149
Cesari, L.- Fullerton, R. E. 150
Gahariya, K. K. 257
Sard, A. 360
Truesdell, C. 361
Helsel, R. G.- Levine, N. 363
Mordell, L. J. 540
Mil'man, D. 546
Albertoni, S.- Cugiani, M. 629
Kuipers, L.- Meulenbeld, B. 736
Eggleston, H. G. 736
Bertolini, F. 737
Cecconi, Jaures. 737
Kreisel, G. 737
Comét, S. 737
Cañero, F. 856
Giuliano, L. 856
Cecconi, J. 856
Seki, S. 856
Roy, S. N. 959

Differentiation and tangents. Cf. Differential geometry (set-theoretical methods).

Nevanlinna, R. 257
Denjoy, A. 456
Scorza Toso, A. 456
Pták, V. 457
Heffter, L. 546
Puig Adam, P. 626
Četković, S. 855

Nondifferentiable functions and related topics.

Bush, K. A. 148
Wunderlich, W. 148
*Hobson, E. W.- Hudson, H. P.- Singh, A. N.- Kempe, A. B. 1114

Functions in abstract spaces.

Katětov, M. 304
Tong, Hing. 304
Gordon, W. L.- McArthur, C. W. 362

GALOIS THEORY. See: algebra: abstract (Galois theory); algebra: equations (classical Galois theory).

GAMES. Cf. Economics; probability.

Barankin, E. W. 190
*McKinsey, J. C. C. 300
Kneser, H. 301
Dvoretzky, A.- Kiefer, J.- Wolfowitz, J. 301
Debreu, G. 301
Bellman, R. 392
May, K. O. 392
Malinvaud, E. 393
McKinsey, J. C. C. 667
Raiffa, H. 667
Fréchet, M. 667
Borel, E. 667
von Neumann, J. 668
Vajda, S. 778
Bellman, R. 778
Nash, J. 778
May, K. O. 778
Dresher, M.- Karlin, S. 779
Milnor, J. 779
Bott, R. 779
Gillies, D. B. 779
Shapley, L. S. 779
Dalkey, N. 891
Otter, R.-Dunne, J. 891
Kiefer, J. 998
Arrow, K. J.- Barankin, E. W.- Blackwell, D. 998
von Neumann, J. 998
Gale, D. 999
Gale, D.- Stewart, F. M. 999
Blackwell, D. 999
Kuhn, H. W. 999
Gillies, D. B.- Mayberry, J. P.- von Neumann, J. 999
Thompson, G. L. 999

GAMMA FUNCTION. See: special functions (gamma function).

GAS DYNAMICS. See: hydrodynamics (perfect fluids: compressible).

GENETICS. See: biological problems; statistics (biometrics).

GEODESY.

Elementary geodesy. Cf. Differential geometry (special mapping problems).

Marussi, A. 202
Krames, J. 675
Marussi, A. 1013
Mineo, M. 1119

Higher geodesy.

Bragard, L. 94
Grant, F. S. 211
Bragard, L. 414, 415

GEOELECTRICITY. See: geophysics (geoelectricity).

GEOMAGNETISM. See: geophysics (geoelectricity).

GEOMETRICAL OPTICS. See: optics (geometrical).

GEOMETRY. Cf. Algebraic geometry; calculus (applications to geometry); contact transformations; continuous geometry; convex bodies; descriptive geometry; differential geometry; groups (group-theoretical problems of geometry); isoperimetric problems; topology; trigonometry; vector and tensor calculus.

Foundations. Cf. Logic; philosophy.

Freudenthal, H. 5
Hoensen, P. 5
Casinos, U. 75
Lietzmann, W. 575
Hjelmslev, J. 677
Chisini, O. 895
Ayrault-Curie, G. 1114

Elementary geometry. Cf. Topology (elementary).

*Altshiller-Court, N. 307
Uličar, J. 307
Giovannardi, M. 399
Euclid. 524
Thébault, V. 574
Hopf, H. 678
Kertész, A.-Szele, T. 783
Danielsson, G. 785
Backes, F. 785
Alsime, R. 785
Goormaghtigh, R. 785
Vitale, D. R. 785
Giovannardi, M. 785
Hanani, H. 896
Raljević, Š. 1007
*Hobson, E. W.-Hudson, H. P.-Singh, A. N.-Kempe, A. B. 1114
Hjelmslev, J. 1114
Frostman, O. 1114
Bottema, O. 1114

Triangles, tetrahedra, etc.

Cavallaro, V. G. 194
Court, N. A. 194
Hadwiger, H. 198
Kok, J. C. 308
Sydler, J.-P. 309
Hadwiger, H. 309
Thébault, V. 398
Bilo, J. 398
Toscano, L. 398
Goormaghtigh, R. 398
Blanchard, R. 398
Hajós, G. 398
Dougall, J. 399
Purchvanidze, A. V. 411
Guitel, G. 493
Court, N. A. 493
Thébault, V. 493
Guillotin, R. 493
Lowry, H. V. 493
Bowman, F. 493
Locher-Ernst, L. 493
Tummers, J. H. 494
Bourgin, D. G. 495
Thébault, V. 574
Petrov, G. 574
Thébault, V. 674
Goormaghtigh, R. 674
Weitzenböck, R. W. 674
Inglada, V. 674
Niče, V. 674
Roeser, E. 674
Thébault, V. 784
Sz.-Nagy, G. 784
Toscano, L. 895
Court, N. A. 895
Steinberger, M. 896

Geometry of the circle and sphere.

Petričević, F. 307
Coxeter, H. S. M. 494
Thébault, V. 1007

Theory of constructions.

Hadwiger, H. 198
Breidenbach, W. 399
Pipping, N. 494
*Smogorževskiĭ, A. S. 575
*Bieberbach, L. 677
*Hobson, E. W.-Hudson, H. P.-Singh, A. N.-Kempe, A. B. 1114

Regular figures and divisions of space. Cf. Elliptic functions (modular groups); groups (crystallography).

Coxeter, H. S. M. 194
Todd, J. A. 194
Locher-Ernst, L. 493
Coxeter, H. S. M. 493
*Lietzmann, W. 575
van der Vaart, H. R. 1007
Bilinski, S. 1007

Configurations.

Zacharias, M. 308
Brown, L. M. 310
Dougall, J. 399
Skopec, Z. A. 399
Coxeter, H. S. M. 493
Lietzmann, W. 575
Smogorževskiĭ, A. S. 576
Gordevskiĭ, D. Z. 675
Fischer, H. J. 785

Analytic geometry. Cf. Algebra: linear.

Goormaghtigh, R. 194
Godeaux, L. 195
Srinivasiengar, C. N.-Mukherjee, B. N. 195
Neumann, H. 195
Łojasiewicz, S. 195
Burrows, W. H. 195
Walker, A. W. 307
Lorent, H. 399
Wunderlich, W. 399
Aiyar, K. Ranganwami. 494
Hameed, Asghar. 494
Tummers, J. H. 494
Tallqvist, H. 574, 575
Fiedler, M. 577
Krames, J. 675
Baur, A. 675
Room, T. G. 675
Wolkowitsch, D. 675
Cavallaro, V. G. 785
Fernández Biarge, J. 785
Rangaswami Aiyer, K. 785
Lorent, H. 895
Cesarec, R. 895
Jensen, H. 895
Lagrange, R. 896
Deaux, R. 1007
Scott, T. 1007
Tárczy-Hornoch, A. 1114
Muracchini, L. 1114
*McCrea, W. H. 1114

GEOMETRY. (Continued)

Projective geometry. Cf. Algebra: linear.

Wyler, O. 75
Queiroz, A. 195
Lagrange, R. 195, 196
Hoffman, A. J. 196
Berman, G. 196
Cuesta, N. 196
*Hjelmslev, J. 196
*Semple, J. G.-Kneebone, G. T. 197
Rios de Souza, J. E. 308
Kok, J. C. 308
*Herrmann, H. 308
Evans, T. 347
Fiore, A. 399
Mullins, E. R., Jr. 399
Pickert, G. 399
Skopec, Z. A. 399
Lagrange, R. 399
Herrmann, H. 494
Morgantini, E. 576
Charrueau, A. 611
*Baer, R. 675
Pickert, G. 721
Piazzolla Beloch, M. 785
Fischer, H. J. 785
Hermann, H. 786
Klingenberg, W. 786
Cronheim, A. 786
Rosenfel'd, B. A. 786
Room, T. G. 837
Jordan, P. 841
Vlitch-Dalovitch, M. 895
Bagchi, Hari das.-Chaki, Manindra Chandra. 895
Cuesta, N. 895
Tits, J. 947
Natucci, A. 1007
Lauffer, R. 1008
*Busemann, H.-Kelly, P. J. 1008
Matsumoto, N. 1114

Geometry in fields.

Mann, H. B. 5
Berman, G. 196
Cundy, H. M. 308
Fletcher, T. J. 675
Qvist, B. 1008
Berman, G. 1008
Järnefelt, G.-Kustaanheimo, P. 1008

Non-Euclidean geometry.

Hadamard, J. 156
Szász, P. 197
Zacharias, M. 308
Wunderlich, W. 399
Ströher, W. 399
Leisenring, K. 399
Lasley, J. W., Jr. 494
Seidel, J. 494
*Smogorževskiĭ, A. S. 575
Kagan, V. F. 575
Polozkov, D. P. 575
Yablonovskiĭ, A. V.-Yampol'skiĭ, V. G. 576
Meller, N. A. 576
Bompiani, E. 576
Fulton, C. M. 576
*Bukreev, B. Ya. 581
Roeser, E. 674
Rajčić, L. 675
Carin, V. S. 675
Szász, P. 675
Gordevskiĭ, D. Z. 675
Pikus, D. L. 679
Allen, E. F. 785
Szász, P. 1007
Rogačenko, V. F. 1007

Minkowski geometry and other generalizations. Cf. Differential geometry (Finsler spaces).

Inzinger, R. 184
*Busemann, H.-Kelly, P. J. 1008

Abstract metrics. Cf. Calculus of variations (generalized geometrical theory); differential geometry (Finsler spaces); functional analysis (general abstract spaces).

Haantjes, J. 75
Seidel, J. 75
Ellis, D. 197
Aleksandrov, A. D. 198
Kelly, P. J.-Paige, L. J. 308
Chamard, L. 400
Kelly, L. M. 494
Seidel, J. 494
Laman, G. 576
Ellis, D. 576
Buck, R. C. 678
*Blumenthal, L. M. 1009

GEOMETRY OF NUMBERS. See: number theory (geometry of numbers).

GEOPHYSICS.

Hydrology, oceanography.

Kierstead, H. A. 216
Fil'čakov, P. F. 423
Barenblatt, G. I. 699
Keller, J. B.-Goldstein, E. 810
Eckart, C. 918
Pierson, W. J., Jr. 918
Štokman, V. B. 1034, 1035
Mihailov, G. K. 1139
Pilatovskiĭ, V. P. 1139

Meteorology.

Eliassen, A. 110
Kuo, Hsiao-Lan. 210
McVittie, G. C. 220
van Mieghem, J. 220
Monin, A. S. 332
Stümke, H. 332
Smolyakov, P. T. 428
Charney, J. G. 428
Yih, Chia-Shun. 476, 477
Fjørtoft, R. 502
Hölland, E. 512
Sherman, L. 512
Eliassen, A. 512
Fjørtoft, R. 815
Thompson, P. D. 815
Haurwitz, B.-Craig, R. A. 816
Charney, J. G.-Phillips, N. A. 816
Chiu, Wan-cheng. 1034
Van Mieghem, J. 1034
Queney, P. 1034

Seismology.

Jardetzky, W. S.-Press, F. 112
Satô, Y. 113, 337
Das Gupta, Sushil Chandra. 517
Satô, Y. 702
Sretenskiĭ, L. N. 830
Haskell, N. A. 820
Kosminskaya, I. P. 1040
Satô, Y. 1147

Potentials. Cf. Geodesy (higher).

Andreev, B. A. 92
Grant, F. S. 211, 1021

Geoelectricity, geomagnetism.

Rikitake, T. 934

GRADUATION. See: errors; numerical methods (differences); statistics (frequency functions).

GRAPHICAL METHODS. See: numerical methods.

GRAPHS. See: mechanics (statics); topology (graphs).

GRAVITATION. See: astronomy (cosmology); geodesy (higher); geophysics (potentials); potential theory; relativity.

GREEN'S FUNCTIONS. See: differential equations; harmonic functions (Dirichlet problem); heat conduction.

GROUPS. Cf. Algebra: abstract; algebra: linear; elliptic functions (modular groups); topology.

Casas, P. 721

Finite groups.

Permutti, R. 13
*Weyl, H. 16
Dyubyuk, P. E. 131
Dietz, H. 133
Green, J. A. 350
Clowes, J. S. 350
Grün, O. 350
Kemhadze, Š. S. 350
Cunihin, S. A. 350
Greco, D. 445
Trofimov, P. I. 445
Honda, K. 445
Gaschütz, W. 445
Zappa, G. 446
Ado, I. D. 447
Azleckiĭ, S. P. 532
Gaschütz, W. 533
Holyoke, T. C. 616
Shaw, R. H. 618
Greco, D. 618
Zitarosa, A. 618
Zacher, G. 722
Wiman, A. 722
Kemhadze, Š. S. 722
Szép, J. 722
Baer, R. 722
Motzkin, T. S.-Taussky, O. 723
Itô, N. 842
Szélpál, I. 843
Nagai, O. 843
Ledermann, W. 945
Itô, N. 946
Mackey, G. W. 947
Nagata, M. 1059
Rédei, L.-Szép, J. 1059
Honda, K. 1059
Huppert, B. 1059
Hamill, C. M. 1060

Abstract groups in general.

Rédei, L. 13
Szép, J.-Rédei, L. 13
Szép, J. 13
Rédei, L. 13
Itô, N. 13
Gruenberg, K. W. 14
Itô, N. 14
Smirnov, D. M. 14
Suprunenko, D. 14
Sesekin, N. F. 15
Plotkin, B. I. 15
Bundgaard, S.-Nielsen, J. 15
Freudenthal, H. 16
Cunihin, S. A. 131
Miller, C. 133
MacLane, S. 133
Hua, L. K.-Reiner, I. 133
Lewis, F. A. 241
Kuhn, H. W. 241
Lyndon, R. C. 242
Krasner, M.-Kaloujnine, L. 242
*Kaloujnine, L. 242
Morita, K. 246
Zavalo, S. T. 351
Neumann, B. H.-Neumann, H. 351
Szele, T. 351
McLean, D. 351
Gorčinskiĭ, Yu. N. 446
Suprunenko, D. A. 447
Ado, I. D. 447
Cohn, P. M. 532
Pavlov, P. P. 533
Rédei, L. 614
Camm, R. 616
Kaloujnine, L. 617
Černikov, S. N. 617
Gluškov, V. M. 617
Lazard, M. 617
Kuroš, A. G.-Černikov, S. N. 618
Shaw, R. H. 618
Greco, D. 618
Permutti, R. 618
Zitarosa, A. 618
Sato, S. 618
Haken, H. 618
Novikov, P. S. 618
Hochschild, G.-Serre, J.-P. 619
Borevič, Z. I. 619
Pickert, G. 721
Sanov, I. N. 722
Magnus, W. 723
Stender, P. V. 723
Scott, W. R. 723
Fuchs, L. 723
Farahat, H. 723
Hattori, A. 723
Lazard, M. 724
Fox, R. H. 843
Baraškaya, S. 946
Mařík, J. 946
Smirnov, D. M. 947
Higman, G. 947
Chowla, S.-Herstein, I. N.-Scott, W. R. 947
Carin, V. S. 1059
Baer, R. 1059
Gol'berg, P. A. 1060
Kemhadze, Š. S. 1060
Nagao, H. 1060
Clowes, J. S.-Hirsch, K. A. 1060
Hall, M., Jr. 1060
Gruenberg, K. W. 1060
Shephard, G. C. 1060

Abelian groups.

Kaplansky, I.-Mackey, G. W. 128
Kuratowski, C.-Mostowski, A. 131
Mostowski, A. 131
Gericke, H. 131
Szele, T. 132
Kertész, A.-Szele, T. 132
Welter, C. P. 132
Kulikov, L. Ya. 132
Kaplansky, I. 133
Mišina, A. P. 133
Richert, H.-E. 349
Nachbin, L. 350
Hall, M., Jr. 350
Szele, T.-Szendrei, J. 532
Shoda, Kenjiro. 614
Mattioli, E. 616
Shoda, K. 616
Kertész, A. 617
Fröhlich, A. 623
Zalceva, M. I. 721
Charles, B. 721
Szele, T. 721
Grenlewski, H. 834
Lorensen, P. 835
Conrad, P. F. 842
Richert, H.-E. 945
Kertész, A. 945
Fuchs, L. 945
Szele, T. 946
Mills, W. H. 946
Douglas, J. 1058
Fuchs, L. 1058
Mann, H. B. 1058
Schützenberger, M. P. 1058

Lattice and partially ordered groups. Cf. Partially ordered sets.

Mal'cev, A. I. 13
Krull, W. 19
Trevisan, G. 19
Michiura, T. 19
*Bourbaki, N. 237
Ohnishi, M. 241
Fuchs, L. 446
Liñán Escardó, E.-Mallol Balmaña, R. 616
Mallol Balmaña, R. 616
Chehata, C. G. 944
Nakada, O. 945
Ellis, D. 945

Representations, characters.

Gamba, A. 16
Matoni, F. 16
Bauer, F. L. 16
Naĭmark, M. A. 16
Kadison, R. V.-Singer, I. M. 17
Nakamura, M.-Umegaki, H. 17
Dietz, H. 133
Murnaghan, F. D. 134
Dieudonné, J. 134
Mautner, F. I. 134
Singer, I. M. 135
Osima, M. 242
Ibrahim, E. M. 243
Littlewood, D. E. 243
Osima, M. 243
Robinson, G. de B. 243, 244
Murnaghan, F. D. 244
Dynkin, E. B. 244
Wallace, A. H. 351
Farahat, H. 351
Osima, M. 351
Bauer, F. L. 351
Inönü, E.-Wigner, E. P. 352
Gel'fand, I. M.-Naĭmark, M. A. 352
Duncan, D. G. 443
Ado, I. D. 447
Iwahori, N. 447
Murnaghan, F. D. 447
Gel'fand, I. M.-Graev, M. I. 448
Hodge, W. V. D. 500
Fumi, F. G. 500
Stiefel, E. 502
Gaschütz, W. 533
Murnaghan, F. D. 533
Itô, S. 533
Eichler, M. 540
Berman, S. D. 619
Motzkin, T. S.-Taussky, O. 723
Witt, E. 845
Osima, M. 845
Sakai, S. 845
Mackey, G. W. 947
Nagao, H. 1061
Murnaghan, F. D. 1061
Inonu, E.-Wigner, E. P. 1061

Continuous and topological groups. Cf. Algebra: abstract (topological); contact transformations; differential equations (infinitesimal transformations); measure and integration (integration in abstract spaces).

Kadison, R. V. 16
Kadison, R. V.-Singer, I. M. 17
Yamabe, H. 17
Nakamura, M.-Umegaki, H. 17
Stone, M. H. 17
Smith, P. A. 18
*Smith, P. A. 18
Numakura, K. 18
Moriya, M. 18
Murnaghan, F. D. 134
Dieudonné, J. 134
Gleason, A. M. 135
Montgomery, D.-Zippin, L. 135
Serre, J.-P. 136
Ganea, T. 136
Itô, S. 187
Dynkin, E. B. 244
*Tannaka, T. 245
Kaplan, S. 245
Calabi, L. 245
Wendel, J. G. 246
Helson, H. 246
Gelbaum, B. R.-Kalisch, G. K. 256
Loomis, L. H. 352
Tôyama, H. 352
Edwards, R. E. 371
Heinz, C. 447
Tits, J. 447
Følner, E. 449
Hu, Sze-tsen. 449
Reiter, H. J. 465
Stone, M. H. 465
Lazard, M. 534
Rådström, H. 534
Murnaghan, F. D. 619
Monna, A. F. 620
Villenkin, N. Ya. 637
Miller, C. E. 673
Lazard, M. 724
Hu, Sze-Tsen. 724
Arelkin, G. Ya. 724
Wallace, A. D. 724
Takahashi, S. 846
Struble, R. A. 846
*Loomis, L. H. 883
Yamabe, H. 948
Newburgh, J. D. 949
Rias, J. 949
Kampé de Fériet, J. 995

Lie groups. Cf. Algebra: abstract (Lie algebras).

Naĭmark, M. A. 16
Kadison, R. V.-Singer, I. M. 17
Nakamura, M.-Turumaru, T. 17
Smith, P. A. 18
*Smith, P. A. 18
Mostow, G. D. 18
Tôgô, S. 18
Calabi, L. 18
Birkhoff, G. 134
Singer, I. M. 135
van Est, W. T. 135
Gleason, A. M. 135
Montgomery, D.-Zippin, L. 135
Serre, J.-P. 136
Karpelevič, F. I. 245
Mostow, G. D. 245
Nijenhuis, A. 320
Rosenknop, I. Z. 397
*Kawada, Y. 410
Gel'fand, I. M.-Graev, M. I. 448
Segal, I. E. 448
Satake, I. 448
*Chevalley, C. 448
Borel, A. 490
Kosambi, D. D. 498
Tashiro, Y. 499
Matsushima, Y. 533
Rådström, H. 534
Dynkin, E. B. 620
Godement, R. 620
Saltykow, N. 650
Raĭevskiĭ, P. K. 795
Murai, Y. 947
Tits, J. 947
Freudenthal, H. 948
Borel, A.-Serre, J.-P. 948
Yamabe, H. 948
Iwasawa, K. 1061
Dieudonné, J. 1062
Dobrescu, A. 1062
James, I. M. 1110
Páry, I. 1112

Crystallography and divisions of space. Cf. Geometry (regular figures).

*Weyl, H. 16
Hamill, C. M. 1060
Shephard, G. C. 1060

Group-theoretical problems of geometry in general.

Whitehead, J. H. C. 15
Jordan, P. 114
Nakano, S. 201
Iguza, J. 201
Segre, B. 208
*Nijenhuis, A. 320
Garrido, J. 351
Heinz, C. 447
Metz, A. 1061

Generalized groups.

Teissier, M. 10
Rédei, L.-Steinfeld, O. 10
Vagner, V. V. 12
Dubreil, P. 12
Thierrin, G. 12
Schwarz, Š. 12
Weaver, M. W. 12
Numakura, K. 18
Moriya, M. 18
Popova, H. 131
*Bourbaki, N. 237
Evans, T. 347
Mal'cev, A. I. 349
Zavalo, S. T. 351
Popova, H. 444
Schwarz, Š. 444
Teissier, M. 445
Tamari, D. 532
Chamberlin, E.-Wolfe, J. 611
Thierrin, G. 614
Popova, H. 615
Thierrin, G. 616
Tamura, T. 616
Thurston, H. A. 241
Teissier, M. 721
Wallace, A. D. 724
Popova, H. 841, 842
Skolem, T. 842
Croisot, R. 842
Thierrin, G. 842
Iséki, K. 842
Hille, E. 882
Lyapin, E. 940
Thierrin, G. 944
Chehata, C. G. 944
Nakada, O. 945
Sánchez-Díaz, R. 1058
Sikorski, R. 1108

HAAR MEASURE. See: measure (integration in abstract spaces).

HANKEL TRANSFORMS. See: integral transforms (Mellin transforms).

HARMONIC ANALYSIS. See: Fourier integrals; Fourier series; groups (continuous groups); numerical methods (practical harmonic analysis); statistics (time series).

HARMONIC FUNCTIONS AND GENERALIZATIONS.

Cf. Elasticity; hydrodynamics; potential theory.

*Leja, F. 1073

General theory.

Lohwater, A. J. 34
Wolontis, V. 36
Bochner, S. 43
Kodaira, K. 82
Bochner, S. 89
Arima, K. 155
Royden, H. L. 167
Tsuji, M. 168
Segre, B. 208
Beckenbach, E. F. 272
Savin, S. A. 272
Komatu, Y. 374
Finzi, A. 374
Teissier du Cros, F. 375
Ozaki, S.-
Kashiwagi, S.-
Tsuboi, T. 461
Allen, A. C.-Kerr, E. 469
Kerr, E. 470
Kuroda, T. 470
Ullemar, L. 470
Gagua, M. 542
Miranda, C. 555
Feller, W. 561
Ward, G. N. 651
Kuroda, T. 740
Kubo, T. 749
Moon, P.-
Spencer, D. E. 756
Duff, G. F. D. 903
Jongmans, F. 904
Myrberg, L. 979
Allen, A. C. 979
Sibagaki, W.-Ono, A. 979
Frostman, O. 980
Hartman, P.-
Wintner, A. 1015
Górski, J. 1084

Subharmonic functions. Cf. Convex functions.

Huber, A. 167
Green, J. W. 271
Jackson, L. 373
Leleong, P. 463
Tsuji, M. 749
Beckenbach, E. F.-
Jackson, L. E. 1084

Dirichlet problem and other boundary value problems. Cf. Differential equations (boundary value problems).

Royden, H. L. 45
Evans, G. C. 45
Sveklo, V. A. 112
Lewy, H. 168
Gerber, R. 168
van Langendonck, T. 221
Kuramochi, Z. 272
Lavrent'ev, M. A. 272
Garnir, H. G. 272
Maple, C. G. 274
Komatu, Y. 374
Garabedian, P. R.-
Spencer, D. C. 462
Lax, P. D. 470
Egloff, W. 470
Diaz, J. B.-
Roberts, R. C. 503
Allen, A. C. 555
Vekua, I. 555
Sobolev, S. L. 565
Lokki, O. 644
Madejski, J. 651
Bonsoncini, V. E. 750
Karush, W.-
Young, G. 750
Tranter, C. J. 750
Pucci, C. 980
Wolska, J. 980
Mitrović, D. 980
Aissen, M. 980
Diaz, J. B. 980
Zitarosa, A. 981
Beckenbach, E. F.-
Jackson, L. E. 1084
Diaz, J. B. 1084
Weinberger, H. F. 1084

Biharmonic and polyharmonic functions.

Pachale, H. 274
*Legendre, R. 333
Sharma, A. 470
Viola, T. 483
Al'perin, I. G. 818
Loewner, C. 1085
Szegö, G. 1085

Generalizations.

Jenkins, J. A.-
Morse, M. 46
Bremermann, H.-J. 971
Leleong, P. 971

HEAT CONDUCTION. Cf. Differential equations; diffusion; probability (Markov chains).

Fulks, W. 51
Tranter, C. J. 51
Bochner, S. 89
Kapica, P. L. 107
Kamynin, L. I. 172
Hirschman, I. I., Jr. 172
Kampé de Fériet, J. 173
Barenblatt, G. I.-
Levitan, B. M. 173
Resch, D. 173
Pogorzelski, W. 180
Magenes, E. 282
Kamynin, L. I. 283
Thiruvenkatachar, V. R.-
Ramakrishna, B. S. 283
Satoh, T. 283
Sestini, G. 381
Paterson, S. 381
Minasyan, R. S. 382
Halatnikov, I. M. 427
Blackman, J. 475
Cole, J. D.-Wu, T. Y. 512
Wassermann, G. D. 560
Voskresenskiĭ, K. D. 560
Gol'dfarb, Z. M. 560
Ducev, A. B. 560
Krzyżański, M. 651
Madejski, J. 651
Tranter, C. J. 750
v. Szalay, L. 758
Vacca, M. T. 758
Rainville, E. D. 758
Thorn, R. J.-
Simpson, O. C. 758
Jaeger, J. C. 801
Lassonen, P. 877
Kampé de Fériet, J. 878
Vodička, V. 983
Voskresenskiĭ, K. D. 984
Kamynin, L. I. 1090
Fulks, W. 1090
Manfredi, B. 1090
Zlateff, I. 1090
Delavault, H. 1090
Zatkis, H. 1090

HEAVISIDE CALCULUS. See: operational calculus.

HERMITE FORMS. See: algebra: linear (quadratic forms).

HERMITE POLYNOMIALS. See: interpolation; polynomials; special functions (hypergeometric functions).

HILBERT SPACES. See: differential geometry (Finsler spaces); functional analysis (Hilbert spaces); measure and integration; topology (topological spaces; applications).

HILBERT TRANSFORMS. See: Fourier series (conjugate functions); integral transforms (Hilbert transforms).

HISTORY.

Ancient and medieval mathematics.

Bruins, E. M. 1
Diophantes 1
von Cues, N. 1
Ten Doesschate, G. 1
Irani, R. A. K. 121
Zubov, V. P. 121
*Becker, O.-
Hofmann, J. E. 341
*von Krbek, F. 341
*Dugas, R. 341
*Baccou, R. 523
Yušcvič, A. P. 523
Bohr, H. 523
Bouligand, G. 523
Viola, T. 523
Brusotti, L. 609
Hofmann, J. E. 609
Łukasiewicz, J. 713
*Bruins, E. M. 831
van der Waerden, B. L. 831
Schmidt, O. 831
*Apostle, H. G. 831
Lacombe, D. 1049
Bruins, E. M. 1049
The medieval science of weights. 1049

Modern mathematics.

Severi, F. 2
*Markusevič, A. I. 2
Poletti, L. 121
Kraitchik, M. 121
Szőkefalvi-Nagy, B. 121
Szele, T. 121
Hajós, G. 121
Rényi, A. 121
Kuratowski, K. 121
Bar-Hillel, Y. 121
*Becker, O.-
Hofmann, J. E. 341
*von Krbek, F. 341
*Dugas, R. 341
Uhler, H. S. 343
Tambs Lyche, R. 523
Sušković, A. K. 523
Glagolev, A. A. 523
Coolidge, J. L. 523
Hille, E. 523
Kalmár, L. 528
Brouwer, L. E. J. 528
Szegő, G. 549
Brusotti, L. 609
Hofmann, J. E. 609
Aleksandrov, P. S. 609
Taton, R. 831
Larsen, L. M. 831
Yanovskaya, S. A. 831
von Krbek, F. 832
Norden, A. P. 832
Calapso, R. 1049
Sergescu, P. 1049
Natucci, A. 1049
Freudenthal, H. 1049
Taton, R. 1050
Ahlfors, L. V. 1050
Picone, M. 1050

India, Far East, Maya.

Rajagopal, C. T.-
Vedamurti Aiyar, T. V. 121
*Becker, O.-
Hofmann, J. E. 341
Barde, R. 523
Schmidt, O. 609
van der Waerden, B. L. 831

Astronomy and physics.

Newton, I. 1
Whittaker, E. 1
*Dugas, R. 341
*Abetti, G. 343
*Baccou, R. 523
Neugebauer, O. 523
Costabel, P. 831
Timoshenko, S. P. 1050

Biography of, collected works of

Diophantes. 1
von Cues, N. 1
Bernštein, S. N. 2
Einstein, A. 2
Goluzin, G. M. 2
Gomes Teixeira, F. 2
Luzin, N. N. 2
Mes'šov, D. E. 2
Bolzano, B. 121
Carathéodory, C. 121
Castelnuovo, G. 121
Clairaut, A. 121
Demoulin, A. 121
Kovalevskaya, S. V. 121
Kovalevskaya, S. V. 122
Leibenzon, L. S. 122
Luzin, N. N. 122
Viviani, V. 525
Scholz, A. 122
Newton, I. 122
Urysohn, P. S. 122
Blias, G. A. 343
Borelli, J. A. 343
de Saint-Vincent, G. 343
*Cartan, E. 343
Castelnuovo, G. 343
Descartes, R.-
Einstein, A. 343
Galileo-Kepler, J. 343
Hamel, G. 343
Huygens, C. 343
Leibniz, G. 344
Maclaurin, C. 344
Marcolongo, R. 344
*Markov, A. A. 344
*Newton, I. 344
*Poincaré, H. 344
Pringsheim, A. 344
Riccati, V. 344
Severini, C. 344
da Vinci, L. 344
Wedderburn, J. H. M. 344
Williamson, J. 344
*Archimedes. 524
Archimedes. 524
*Bianchi, L. 524
*Boethius 524
Bohr, H. 524
Cartan, E. J. 524
Castelnuovo, G. 524
*Nicomachus of Gerasa. 525
Nikoladze, G. 525
Ostrogradskiĭ, M. V. 525
Sommerfeld, A. J. W. 525
Neményi, P. F. 122
Yule, G. U. 525
Archimede. 609
Briggs, H. 609
Bürgi, J. 609
Cantor, G. 609
Caplygin, S. A. 609
*Cardano. 609
Euclide. 609
Fermat, P.-
Descartes, R. 609
Kronecker, L. 609
Leibenzon, L. S. 609
Lobačevskiĭ, N. I. 609
Nanda, Dwarka Nath. 609
Newton, I. 609
de Pedrayes, A. 609
*Riemann, B. 610
Skolem, Th. 610
Tolomeo. 610
*Vinogradov, I. M. 610
Abel, N. H. 832
Apollonius of Perga. 832
Archimedes. 832
Viviani, V. 832
Berkeley, G. 832
Bianchini, G. 832
Bolyai, G. 832
Cartan, E. 832
Castelnuovo, G. 832
Enriques, F. 832
Ceva, T. 832
Grandi, G. 832
Clairaut, A. 832
Copernicus, N. 832
Dinnik, A. N. 832
Erisn, K. 832
Fitzgerald, G. F. 832
Fujiwara, M. 832
Huntington, E. V. 832
Kepler, J. 832
Kubota, T. 832
da Vinci, Leonardo. 832
Lobačevskiĭ, N. I. 832, 833
Magnickiĭ, L. F. 833
Mignosi, G. 833
Mirimanoff, D. 833
Moulton, F. R. 833
Newton, I. S. 833
Ostrogradskiĭ, M. V. 833
Ptolemy. 833
Purser, W. 833
Rheticus. 833
de Roberval, G. P. 833
*Schläfli, L. 833
Signorini, A. 833
Spinoza, B. 833
Teofilato, P. 833
Torricelli, E. 833
Voronoĭ, G. F. 954
Archimedes. 1050
Barrau, J. A. 1050
Canacci, R. 1050
Darboux, J. G. 1050
Deweck, M. 1050
Filippa, C. E. 1050
Fremberg, N. E. 1050
*Galileo, G. 1050
Grandi, G. 1050
Huber, M. T. 1050
Huygens, C. 1050
al Kāšī, G. B. M. 1051
Krylov, A. N. 1051
Libri, G. 1051
Luzin, N. N. 1051
von Mises, R. 1051
Diadochus, P. 1051
Quevedo, T. 1051
Ruffini, P. 1051
Segre, C. 1051
da Vinci, Leonardo. 1051

HYDRODYNAMICS, AERODYNAMICS. Cf. Acoustics; astronomy (figures of equilibrium); geophysics (hydrology, oceanography; meteorology).

*Nielsen, J. 215
*Troskolański, A. T. 695

HYDRODYNAMICS, AERODYNAMICS. (Continued)

Foundations and general theory. Cf. Mechanics of continua.

Castoldi, L. 101
von Mises, R. 328
Skudrzyk, E. 328
Popov, S. G. 507
*Partington, J. R. 593
Sedov, L. I. 809
Ertel, H. 809
Truesdell, C. 1026
Van Mieghem, J.-M. 1027
Litwiniszyn, J. 1029
v. Mises, R. 1032
Castoldi, L. 1136
Itô, H. 1136
Masuda, H. 1137
Carstoiu, I. 1137
Müller, W. 1141

Perfect fluids: incompressible.

Garabedian, P. R. 102
Spencer, D. C. 102
Garabedian, P. R. 102
Royden, H. L. 102
Lavrentieff, M. 102
Birkhoff, G. 102
Roseau, M. 215
Gröbner, W. 216
Liu, Hsien Chih. 216
Packham, B. A. 216
Kierstead, H. A. 216
Serrin, J. 326
Kravtchenko, J. 326
Havelock, T. H. 326
Pond, H. L. 326
Ursell, F. 326
Vallander, S. V. 326
Polyahov, N. N. 327
Siegel, K. M. 374
Byuïgens, S. S. 422
Payne, L. E. 422
Loos, H. G. 422
Dolaptschijew, B. 422, 423
Kalinin, S. V. 423
Fil'čakov, P. F. 423
Storchi, E. 423
Sretenskiĭ, L. N. 423
Sekerž-Zen'kovič, Ya. I. 423
Bîcsel, F. 423
Ericksen, J. L. 508
Slezkin, N. A. 508
Gerber, R. 508
Sretenskiĭ, L. N. 508
Taylor, G. I. 593
Butler, S. F. J. 593
Pataraya, N. N. 594
Cooper, E. P. 594
Woronetz, C. 594
Lewy, H. 594
Ursell, F. 594
Binnie, A. M. 594
Woods, L. C. 693
Huron, R. 695
Kufarev, P. P. 695
Ehrich, F. F. 695
Karal, F. C. 696
Nadile, A. 696
Liu, Hsien Chih. 696
v. Gorup, G. 810
Szebehely, V. G. 810
Garabedian, P. R. 810
Lewy, H. 810
Schiffer, M. 810
Keller, J. B. 810
Goldstein, E. 810
Ursell, F. 811
Davies, T. V. 811
Pohle, F. V. 811
Moiseev, N. N. 811
Haskind, M. D. 811
Gomes, A. P. 811
Birkhoff, G. 918
Moreau, J.-J. 1027
Darwin, C. 1027
Morgan, G. W. 1027
Stewartson, K. 1027
Birkhoff, G. 1027
Schmieden, C. 1028
Fuchs, R. A. 1028
Biesel, F. 1028
Dressler, R. F. 1028
Pohle, F. V. 1028
Polyahov, N. N. 1028
Fettis, H. E. 1028
Falkner, V. M. 1028
van de Vooren, A. I. 1028
Reissner, E. 1029
Serrin, J. 1137
Greene, T. R. 1137
Heins, A. E. 1137
Birkhoff, G. 1137
Kotik, J. 1137
Lacombe, H. 1138
Wendt, H. 1138
Apté, A. 1138
Britten, K. H. V. 1138

Perfect fluids: compressible.

*Sauer, R. 107
Ericksen, J. L. 107
Prim, R. C., 3rd. 107
Cabannes, H. 108
Manwell, A. R. 108
Ting, Lu. 108
Chu, Boa-Teh. 108
Ting, L. 108
Ludloff, H. F. 108
Taunt, D. R. 109
Ward, G. N. 109
Squire, H. B. 109
Miles, J. W. 109
Muggia, A. 109
Young, A. D. 109
Kirkby, S. 109
Drougge, G. 109
Behrbohm, H. 109
Germain, P. 177
Chang, Chieh-Chien. 178
Werner, J. 178
Bergman, S. 217
Martin, M. H. 217
Mathur, P. N. 217
de Kármán, T. 217
Fabri, J. 218
Legras, J. 218
Maslen, S. H. 218
Sauer, R. 218
Chen, Yu Why. 218
Van Dyke, M. D. 218
Ursell, F. 218
Ward, G. N. 218
Flax, A. H. 218, 219
Heaslet, M. A. 219
Spreiter, J. R. 219
Robinson, A. 219
Hunter-Tod, J. H. 219
Fraser, R. A. 219
Byuïgens, S. S. 328
Martin, J. C. 329
Pai, S. I. 329
Meyer, R. E. 329
Newton, R. G. 329
Shen, S. F. 330
Kawaguti, M. 330
Hasimoto, H. 330
Whitham, G. B. 330
Van Dyke, M. D. 331
Ferri, A. 331
Nocilla, S. 331
Moreau, J.-J. 331
Shen, Shan-fu. 331
Sauer, R. 381
Sedov, L. I. 425
Kawamura, R. 425
Kawamura, T. 425
Travers, S. 425
Blank, H. 425
Mitchell, A. R. 425
McCall, F. 425
Kaplan, C. 425
Tumašev, G. G. 426
Phythian, J. E. 426
Stewartson, K. 426
Goodman, T. R. 426
Kemp, N. H. 426
Leslie, D. C. M. 426
Miles, J. W. 427
Wasserman, R. H. 427
Ertel, H. 508
*A selection of tables for use in calculations of compressible airflow. 510
Shiffman, M. 510
Krzywoblocki, M. Z. E. 510
Truesdell, C. 511
Phythian, J. E. 511
McFadden, J. A. 511
Niordson, F. I. N. 511
Robinson, A. 511
Duban, P. 511
Stone, A. H. 511
Jones, R. T. 511
Cole, J. D.-Wu, T. Y. 512
Yih, Chia-Shun. 512
Grad, H. 522
Graffi, D. 598
Germain, P. 598
Sauer, R. 598
*Handbook of supersonic aerodynamics. 598
Chester, W. 598
Adams, Mac C. 599
Sears, W. R. 599
Ward, G. N. 698
Saito, O. 698
Bunimovič, A. I. 698
Kopson, G. L. 698
Ghaffari, A. G. 698
Tierney, J. A. 699
Kaplan, C. 699
Thomas, T. Y. 698
Giese, J. H. 699
Cohn, H. 699
Robinson, A. 699
Barenblatt, G. I. 699
Bers, L. 743
Helfer, H. L. 804
*Oswatitsch, K. 814
Hida, K. 814
Martin, M. H. 815
Miles, J. W. 815
Krasil'ščikova, E. A. 815
Copson, E. T. 816
Gilbarg, D. 920
Ludford, G. S. S. 920
Ghaffari, A. 920
Garrick, I. E. 920
Germain, P. 920
Liger, M. 920
Sasaki, T. 920
Ribner, H. S. 921
Arnoff, E. L. 921
Cherry, T. M. 921
Hasimoto, Z. 921
Tamada, K. 921
Cabannes, H. 921
Thomas, T. Y. 921
Ribner, H. S. 922
Pistolesi, E. 922
Thom, A. 922
Klanfer, L. 922
Serruys, M. 922
Parker, E. M. 923
Keller, J. B. 923
Ludford, G. 1032
Polachek, H. 1032
Seeger, R. J. 1032
Pack, D. C. 1032
Crocco, L. 1032
Chang, Chieh-Chien. 1032
O'Brien, V. 1032
Cabannes, H. 1033
Morawetz, C. S. 1033
Kolodner, I. I. 1033
Davis, J. L. 1033
Davies, H. J. 1033
Pistolesi, E. 1033
Lavender, R. E. 1034
Nonweiler, T. 1034
Bernard, J.-J. 1048
Siestrunck, R. 1048
Abdurahiman, P. V. 1140
Ludford, G. S. S. 1140
Guderley, G. 1140
Fenain, M. 1141
Ludloff, H. F. 1141
Friedman, M. B. 1141
Murthy, S. N. B. 1141
Flax, A. H. 1141
Bartels, R. C. F. 1141
Laporte, O. 1141
Müller, W. 1141

HYDRODYNAMICS, AERODYNAMICS. (Continued)

Viscous fluids.

Kawaguti, M. 104
Taylor, G. 104
Kapica, P. L. 107
Truesdell, C. 231
Synge, J. L. 273
Truesdell, C. 273
Hopf, E. 327
Bellman, R. 327
*Targ, S. M. 327
Hannah, D. M. 327
von Mises, R. 328
Oestreicher, H. L. 337
Slezkin, N. A. 424
Kuznecov, M. D. 424
Comolet, R. 424
Valensi, J. 424
Clarion, C. 424
Gadd, G. E. 424
Lighthill, M. J. 424
Tatsumi, T. 424
Heisenberg, W. 424
Andersson, B. 509
Heinrich, G. 509
Hamel, G. 509
Ackeret, J. 509
van Dyke, M. D. 509
Cabannes, H. 595
Yatseyev, V. L. 595
Shercliff, J. A. 596
Michael, D. H. 596
Dolidze, D. E. 696
Avališvili, L. I. 696
Slezkin, N. A. 697
Millsaps, K. 697
Polhausen, K. 697
Geršuni, G. Z. 697
Westervelt, P. J. 700
Mukherjee, Santi Ram. 700
Karreman, G. 781
Sedney, R. 812
Charnes, A. 812
Saibel, E. 812
Sowerby, L. 812
Chandrasekhar, S. 813
Lehnert, B. 813
Lundquist, S. 814
Fjørtoft, R. 815
Heinrich, G. 918
Litwiniszyn, J. 1029
Ballabh, Ram. 1029
Prem Prakash. 1029
Ghosh, N. L. 1029
Stewartson, K. 1030
Berker, R. 1030
Wakiya, S. 1030
Rouse, H. 1030
Hsu, Hsieh-ching. 1030
Hancock, G. J. 1030
Poritsky, H. 1030
Shu, S. S. 1031
Sowerby, L. 1031
Cooke, J. C. 1031
Nardini, R. 1032
Ludford, G. 1032
Polachek, H. 1032
Seeger, R. J. 1032
v. Mises, R. 1032
Stewartson, K. 1138
Squire, H. B. 1139
Dean, W. R. 1139
*Mercalov, N. I. 1139

Boundary layer.

Cooke, J. C. 104
Schlichting, H. 104
Truckenbrodt, E. 104
Thwaites, B. 105
Wuest, W. 105
Young, G. B. W. 105
Janssen, E. 105
Tetervin, N. 216
Lin, Chia Chiao. 216
Bouniol, F. 217
Eichelbrenner, E. A. 217
Quick, A. W. 217
Schröder, K. 217
Tatsumi, T. 217
Tetervin, N. 217
Levine, D. A. 217
Fogarty, L. E. 328
Truesdell, C. 361
Mager, A. 509
Morawetz, C. S. 509
Nigam, S. D. 595
Görtler, H. 595
Lees, L. 600
Šestopalov, V. P. 697
Emmons, H. W. 697
Oudart, A. 812
Thwaites, B. 812
Illingworth, C. R. 813
Tsuji, H. 919
Murphy, J. S. 919
Illingsworth, C. R. 919
Zondek, B. 919
Thomas, L. H. 919
Sowerby, L. 1031
Cooke, J. C. 1031
Probstein, R. F. 1031
Stewartson, K. 1031
de Possel, R. 1031
Valensi, J. 1031
Brown, W. B. 1031
Tifford, A. N. 1031
Lessen, M. 1031
Nonweiler, T. 1034
Cowling, T. G. 1130
Nigam, Swami Dayal. 1130
Rangasami, Kumandur Srinivasa Iyengar. 1139
Gadd, G. E. 1139
Dienemann, W. 1140
Dunn, D. W. 1141
Lin, C. C. 1141

Turbulence.

Bass, J. 105
Coburn, N. 105
Frenkiel, F. N. 106
v. Krzywoblocki, M. Z. 106
Corrsin, S. 106
Moyal, J. E. 106
Csada, I. K. 107
Coburn, N. 217
Chandrasekhar, S. 328
Bass, J. 328
Corrsin, S. 328
Chandrasekhar, S. 424
Lee, T. D. 425
Morawetz, C. S. 509
Lin, C. C. 509
Krzywoblocki, M. Z. E. 596
Proudman, I. 596
*Batchelor, G. K. 597
*Liepmann, H. W. 597
Thomas, L. H. 697
Lessen, M. 697
Laurmann, J. A. 697
Batchelor, G. K. 698
Chandrasekhar, S. 803
Tatsumi, T. 813
Lin, C. C. 813
Uberoi, Mahinder S. 813
Krzywoblocki, M. Z. 813
Chandrasekhar, S. 813
Lundquist, S. 814
v. Krzywoblocki, M. Z. 919
Obukhoff, A. M. 919
Yaglom, A. M. 919
Parker, E. N. 920
Frenkiel, F. N. 920
Pearson, C. E. 920
Eckart, C. 923
Burgers, J. M. 1031

Airfoil theory.

Imai, I.-Kaji, I.-Umeda, K. 102
van Heemert, A. 103
Holme, O. 103
Lapin, E. 103
Crookshanks, R. 103
Hunter, H. F. 103
van de Vooren, A. I. 103
Laitone, E. V. 103
Jones, W. P. 103
Schmeidler, W. 104
Radok, J. R. M. 104
Couchet, G. 104
Taunt, D. R. 104
Ward, G. N. 109
Squire, H. B. 109
Miles, J. W. 109
Muggia, A. 109
Weissinger, J. 210
Manwell, A. R. 216
Presciutto, A. 216
Curtis, A. R. 216
Monaghan, R. J. 216
Ursell, F. 218
Ward, G. N. 218
Flax, A. H. 218, 219
Heaslet, M. A. 219
Spreiter, J. R. 219
Robinson, A. 219
Hunter-Tod, J. H. 219
Robinson, A. 219
Frazer, R. A. 219
Frazer, R. A. 219
Skan, S. W. 219
Miles, J. W. 219
Costello, G. R. 220
Cummings, R. L. 220
Sinnette, J. T., Jr. 220
Vallander, S. V. 326
Polyahov, N. N. 327
Nocilla, S. 331
Moreau, J.-J. 331
Lomax, H. 383
Heaslet, M. A. 383
Fuller, F. B. 383
Falkner, V. M. 411
Loos, H. G. 422
Stewartson, K. 426
Goodman, T. R. 426
Kemp, N. H. 426
Leslie, D. C. M. 426
Miles, J. W. 427
Yoshikawa, H. 503
Kochin, N. E. 508
Robinson, A. 511
Jones, R. T. 511
Chapman, D. R. 512
Cohen, D. 512
Berndt, S. B. 512
Goldstein, A. W. 512
Timman, R. 512
Lemaigre, B. 594
Golubev, V. V. 594, 595
Timman, R. 595
Flax, A. H. 599
Zvereva, K. D. 599
Couchet, G. 600
Kawasaki, T. 696
Kuzmak, G. E. 696
Robinson, A. 699
Charnes, A. 699
Paničkin, I. A. 699
v. Gorup, G. 810
Nickel, K. 811
Jaeckel, K. 812
Lambourne, N. C. 812
Miles, J. W. 815
Krasil'ščikova, E. A. 815
Tables of complete downwash due to a rectangular vortex. 905
Young, D. M. 909
Garrick, I. E. 909
Ostrowski, A. M. 909
Swinford, L. H. 909
Dorfman, L. A. 919
Couchet, G. 919
Marini, M. 922
Fettis, H. E. 922
Ruppel, W. 922
Weber, R. 922
Allen, D. N. de G. 1021
Dennis, S. C. R. 1021
Polyahov, N. N. 1028
Falkner, V. M. 1028
van de Vooren, A. I. 1028
Reissner, E. 1029
Jaumotte, A. 1029
Betz, A. 1029
Pistolesi, E. 1033
Kuessner, H. G. 1138
Truckenbrodt, E. 1138
Flax, A. H. 1141

HYDRODYNAMICS, AERODYNAMICS. (Continued)

Wave propagation and vibrations.

Lavrentieff, M. 102
Lewy, H. 168
Roseau, M. 215
Gröbner, W. 216
Liu, Hsien Chih. 216
Packham, B. A. 216
Kierstead, H. A. 216
Havelock, T. H. 326
Pond, H. L. 326
Ursell, F. 326
Storchi, E. 423
Sretenskiĭ, L. N. 423
Sekerž-Zen'hovič, Ya. I. 423
Biésel, F. 423
Kawamura, R. 425
Sretenskiĭ, L. N. 508
Lewy, H. 594
Ursell, F. 594
Keller, J. B.-Goldstein, E. 810
Ursell, F. 811
Davies, T. V. 811
Moiseev, N. N. 811
Haskind, M. D. 811
Munk, W. H.-Arthur, R. S. 918
Eckart, C. 918
Pierson, W. J., Jr. 918
Hines, C. O. 934
Fuchs, R. A. 1028
Biesel, F. 1028
Cabannes, H. 1033
Greene, T. R.-Heins, A. E. 1137
Birkhoff, G.-Kotik, J. 1137
Lacombe, H. 1138
Wendt, H. 1138
Aptié, A. 1138

Special problems.

Monaghan, R. J. 216
Šapošnikov, I. G. 217
Drablin, E. 217
Žuhovickiĭ, E. M. 217
Bryson, A. E. 220
Tsien, H. S. 332
Stocker, P. M. 332
van der Does de Bye, J. A. W.-Schenk, J. 332
Wasserman, R. H. 427
*Ostroumov, G. A. 427
Halatnikov, I. M. 427
Kronig, R.-Theilung, A. 427
Smolyakov, P. T. 428
van Est, W. T.-Overbeek, J. Th. 434
Yih, Chia-Shun. 512
Adams, Mac C.-Sears, W. R. 599
Schuh, H. 600
Gjellestad, G. 804
Stokman, V. B. 1034, 1035
Pereira Gomes, A. 1138
Thomson, W. T. 1147

HYDROLOGY. See: geophysics (hydrology, oceanography).

HYPERBOLIC DIFFERENTIAL EQUATIONS. See: differential equations; elasticity; electricity (waves); functional analysis (existence theorems); geophysics; numerical methods (differential equations).

HYPERCOMPLEX SYSTEMS. See: algebra: abstract; algebra: linear (special algebras); functions of complex variables (functions of quaternion variables).

HYPERGEOMETRIC FUNCTIONS. See: special functions (hypergeometric functions).

HYPERGROUPS. See: groups (generalized groups).

IDEAL THEORY. See: algebra: abstract (commutative rings; noncommutative rings); number theory.

INDEX NUMBERS. See: economics; statistics.

INEQUALITIES. Cf. Convex functions; Fourier series (extremal problems); functions of complex variables (extremal problems); isoperimetric problems; polynomials (extremal problems).

Weinberger, H. F. 24
*Korovkin, P. P. 24
Fujinaka, H. 144
Pennington, W. B. 159
Kuipers, L. 360
Olevskiĭ, M. N. 360
Hoffman, A. J. 453
Allen, A. C. 455
Kreisel, G. 458
Blumenthal, L. M. 541
Mandelbrojt, S. 542
Gaddum, J. W. 576
Polya, G. 626
Lorch, E. R. 678
Bergström, H. 716
Moriguti, S. 731
Isaacs, G. L. 731
Berg, L. 731
Laurenti, F. 731
Bellman, R. 731
Haynsworth, E. V. 837
Jacobsthal, E. 852
Rankin, R. A. 852
Mahler, K.-Popken, J. 852
Aspeitia, A. G. 957
Bellman, R. 957
*Bourbaki, N. 960
Sz.-Nagy, B. 976
Aissen, M. 980
Díaz, J. B. 980
Wong, Y. K. 1054
Schneider, H. 1055
Dresher, M. 1067
Danskin, J. M. 1067
Bajraktarević, M. 1068
Díaz, J. B. 1084
Weinberger, H. F. 1084

INFINITELY MANY VARIABLES. See: differential equations (differential operators); functional analysis (equations).

INSTRUMENTS. See: numerical methods (instruments).

INSURANCE. See: actuarial mathematics.

INTEGRAL AND INTEGRODIFFERENTIAL EQUATIONS. Cf. Functional analysis (existence theorems); integral transforms.

Linear integral equations.

Germay, R. H. 53
Nomokonov, M. K. 53
Gantmaher, F. R.-Krein, M. G. 178
Harazov, D. F. 179, 180
Pogorzelski, W. 180
Germay, R. H. 382
Hovanskiĭ, A. N. 562
Colombo, S. 562
Germay, R. H. 562
Parodi, M. 562
*Petrovskiĭ, I. G. 761
Fenyő, I. 761
Salam, A. 761
Harazov, D. F. 764
Bellman, R.-Latter, R. 764
Satô, T. 878
Ullman, J. L. 878
Parodi, M. 878
Maksimov, I. M. 878
Wolska, J. 980
Hampel, R. 987
Krasnosel'skiĭ, M. A. 1092
Fenyő, I. 1092

Singular integral equations.

Gohberg, I. C. 54
Vekua, N. P. 151
Magnaradze, L. 152
Karcivadze, I. N.-Hvedelidze, B. V. 152
Kveselava, D. A. 152
Vekua, N. P. 153
Krikunov, Yu. M. 153
Elliott, J. 180
Hvedelidze, B. V. 181
Vekua, N. P. 182
Ahlfors, L. V. 182
Royden, H. L. 182
Vekua, N. P. 459
Kalandiya, A. I. 515
Dörr, J. 562
Gahov, F. D. 629
Plûme, Z. 644
Čakvetadze, S. S. 738
Gahov, F. D. 762
Mandžavidze, G. F. 762
Mihlin, S. C. 762
Karcivadze, I. N.-Hvedelidze, B. V. 762
Karcivadze, I. N. 763
Vekua, N. P. 763
Ganin, M. P. 763, 764
Aleksandriya, G. N. 764
Gegeliya, T. G. 879
Vekua, N. P. 968
Pogorzelski, W. 988
Nickel, K. 988

Integrodifferential equations.

Finkelsstejn, L.-Mikusiński, J. G.-Ryll-Nardzewski, C. 54
Krikunov, Yu. M. 153
Pogorzelski, W. 181
Gagaev, B. M. 182
Kokareva, T. A. 284
Žeaben, O. 383
Colombo, S. 383
Nikolenko, V. N. 562
Nardini, R. 562
Messel, H. 563
Germay, R. H. 765
Lehmann, N. J. 765
Hille, E. 882
Germay, R. H. 987, 988
Wolska, J. 988
Bykov, Ya. V. 1092

Nonlinear integral equations.

Schmeidler, W. 382
Stapans, A. Ž. 766
Valnberg, M. M. 1092
Krasnosel'skiĭ, M. A. 1095

Special integral equations.

Nickel, K. 54
Dörr, J. 54
Gantmaher, F. R.-Krein, M. G. 178
Arianyh, I. S. 220
Melyahoveckiĭ, A. S. 223
Šatašvili, S. H. 223
Surinov, Yu. A. 230
Bremmer, H. 337
Fricke, A. 383
Lomax, H.-Heaslet, M. A.-Fuller, F. B. 383
Dörr, J. 562
Messel, H. 563
Burbidge, G. R.-Burbidge, E. M. 591
Kuzmak, G. E. 696
Kyach, G. J. 710
Huang, Su-Shu. 765
Guy, R. 765
*Kourganoff, V. 879
Nishimura, J.-Kamata, K. 879
Monticelli, F. 880
Nickel, K. 988
Itô, K. 1101

INTEGRAL GEOMETRY. See: convex bodies; differential geometry (differential geometry in the large).

INTEGRAL INVARIANTS. See: invariants (differential).

INTEGRAL MEANS. See: convex functions.

INTEGRAL TRANSFORMS. Cf. Differential equations (applications); Fourier integrals; integral equations.

General theory.

Duffin, R. J. 163
Čelidze, V. G. 638
Sumner, D. B. 747

Hilbert transforms.

Elliott, J. 180
Horváth, J. 747

Laplace transforms. Cf. Completely monotone functions; Dirichlet series; operational calculus.

Ku, C. H.-Yih, M. L.-Chen, K. K. 43
Hsu, L. C. 235
Bertolini, F. 268
Bose, S. K. 372
Kac, A. M. 372
Jánossy, L. 388
Bose, S. K. 465
Tanaka, C. 554
Rooney, P. G. 554
San Juan, R. 554
Doetsch, G. 555
Laguardia, R. 555
Bose, S. K. 555
Bhatnagar, K. P. 555
Dinesh Chandra. 555
Mitra, S. C.-Bose, B. N. 555
MacNerney, J. S. 626
Schwartz, L. 639
Coen, G. A.-Bernstein, D. L. 639
Schwenkhagen, H. F. 639
San Juan, R. 639
Bose, S. K. 639
Schoenberg, I. J.-Whitney, A. 732
Petersen, R. 746
Humbert, P. 747
Agmon, S. 869
Fox, C. 869
Chakrabarty, N. K. 870
Thosar, Y. V. 870
Poli, L. 870
Pleijel, A. 977
Ghizzetti, A. 977
Aspeitia, A. G. 977
Rodrigues-Salinas, B. 977
Doetsch, G. 977
Saksena, K. M. 1081
Mañas Díaz, J. 1082

Mellin, Hankel and other special transforms.

Jaiswal, J. P. 43
Olsen, H. 43
Zitarosa, A. 465
Uflyand, Ya. S. 516
Gupta, H. C. 639
Agarwal, Ratan Prakash. 639
Jaiswal, J. P. 640
Scott, E. J. 869
Langebartel, R. G. 869
Fox, C. 869
Kumar, R. 870
Jaiswal, J. P. 870

Inversion formulas.

Sumner, D. B. 747

Self-reciprocal functions and generalizations.

Gupta, H. C. 639
Bhatnagar, K. P. 977

INTEGRALS OF FRACTIONAL ORDER. See: differentiation of fractional order.

INTEGRATION, THEORY OF. See: measure and integration.

INTEGRODIFFERENTIAL EQUATIONS. See: integral equations.

INTERPOLATION: GENERAL THEORY. Cf. Fourier series (trigonometric interpolation); functions of complex variables (complex interpolation); numerical methods (differences).

Picone, M. 144
Tagamlickiĭ, Ya. A. 542
Berman, D. L. 542
Picone, M. 732
Schoenberg, I. J.- Whitney, A. 732
Gel'fond, A. O. 759, 760
Dimić, P. 871
Picone, M. 1067

Mechanical quadratures. Cf. Numerical methods (differentiation and integration).

Nikol'skiĭ, S. M. 24
Delange, H. 254
Birindelli, C. 626
Brunk, H. D.- Ewing, G. M. 735
Georgiev, G. 852
Bilharz, H. 958

INTUITIONISM. Cf. Logic; philosophy.

Łukasiewicz, J. 4
Grzegorczyk, A. 4
Goodstein, R. L. 123
Witt, E. 440
Dijkman, J. G. 441
van Rootselaar, B. 441
Brouwer, L. E. J. 441
Kreisel, G. 458
Goodstein, R. L. 527
Brouwer, L. E. J. 528, 783
Gilmore, P. C. 1053
Cohen, K. J. 1053
Łukasiewicz, J. 1053

INVARIANTS.

Algebraic invariants.

Wallace, A. H. 351
Duncan, D. G. 443
Murnaghan, F. D. 447

Differential and integral invariants.

De Sloovere, H. 84
Kawada, Y. 410
Hodge, W. V. D. 500
Togliatti, E. 685
Aitken, A. C. 716
Foulkes, H. O. 716

INVERSION FORMULAS. See: integral transforms (inversion formulas); series (asymptotic).

IRRATIONAL NUMBERS. See: continued fractions; Diophantine approximations; logic (foundations); number theory (algebraic).

IRREDUCIBILITY. See: algebra: equations (zeros); polynomials (irreducibility).

ISOPERIMETRIC PROBLEMS AND GEOMETRICAL INEQUALITIES. Cf. Calculus of variations (isoperimetric problems); convex bodies.

Davenport, H. 75
Ohmann, D. 76
Łukaszewicz, J., rédacteur. 76
*Yaglom, I. M.- Boltyanskiĭ, V. G. 197
Hadwiger, H. 198
Kearsley, M. J. 198
Hadwiger, H. 310
Boerdijk, A. H. 310
Whyte, L. L. 310
Molnár, J. 401
van der Waerden, B. L. 401
Eggleston, H. G.- Taylor, S. J. 401
Verblunsky, S. 495
Hodges, J. L., Jr. 495
Hadwiger, H. 495
Wise, M. E. 495
Eggleston, H. G. 496
Chabauty, C. 541
Victoris, L. 577
Beurling, A. 582
Polya, G. 626
Kubota, T. 678
Hadwiger, H. 679
Pikus, D. L. 679
Eggleston, H. G. 679
Thüring, R. 679
Biernacki, M. 679
Sholander, M. 787
Schütte, K.- van der Waerden, B. L. 787
Bambah, R. P.- Davenport, H. 787
Molnár, J. 788
Ohmann, D. 788
Chabauty, C. 850
Germansky, B. 854
Steinberger, M. 896
Eggleston, H. G. 896
Radzisszewski, C. 896
Fejes Tóth, L. 896
Motzkin, T. S.- Straus, E. G.- Valentine, F. A. 1115
Fejes Tóth, L. 1115
Few, L. 1115

ITERATION. See: functional equations; functions of complex variables (iteration).

JACOBIANS. See: calculus.

KINEMATICS. See: differential geometry (kinematical methods); mechanics (kinematics).

KNOTS. See: topology (knots).

LAGUERRE POLYNOMIALS. See: interpolation; polynomials.

LAMÉ FUNCTIONS. See: special functions (Legendre functions).

LAPLACE INTEGRALS AND TRANSFORMS.

LATTICE POINTS. See: number theory (lattice points).

LATTICE POTENTIALS. See: potential theory (lattice potentials).

LATTICES. See: partially ordered sets.

LEAST SQUARES. See: errors.

LEBESGUE THEORY. See: functions of real variables; measure and integration.

LEGENDRE FUNCTIONS. See: interpolation; polynomials; special functions (Legendre functions).

LIE ALGEBRAS. See: algebra: abstract (Lie algebras).

LIE GROUPS. See: groups (Lie groups).

LINE GEOMETRY. See: differential geometry (differential line geometry); geometry (lines).

LINEAR ALGEBRA. See: algebra: abstract; algebra: linear.

LINEAR OPERATORS. See: functional analysis.

LINEAR SPACES. See: functional analysis; measure and integration; topology.

LOGIC AND AXIOMATICS. Cf. Geometry (foundations); intuitionism; partially ordered sets; philosophy; probability (foundations); sets (axiomatics).

*Rosser, J. B. 935
Destouches, J.-L. 1042

Formal and symbolic logic.

*Mostowski, A. 3
*Becker, O. 3
Rose, A. 3
Wang, Hao. 3
Curry, H. B. 4
Robinson, J. 4
Łukasiewicz, J. 4
Grzegorczyk, A. 4
Sanpei, Y. 4
Behmann, H. 122
Curry, H. B. 122
Kreisel, G. 122
Wang, Hao. 123
Rose, A. 123
Fletcher, T. J. 123
Goodstein, R. L. 123
Hasenjaeger, G. 124
Lombardo-Radice, L. 124
Church, A.- Quine, W. V. 233
Craig, W.- Quine, W. V. 233
Rose, A. 233
Markov, A. A. 233
Vorob'ev, N. N. 233
Novikov, P. S. 234
Schröter, K. 234
Ackermann, W. 344
Surányi, J. 344
Kalicki, J. 344
Grzegorczyk, H. 345
Łoś, J. 345
Singh, R. K. P.- Shukla, R. 345
Götlind, E. 345
Stenius, E. 345
Rieger, L. 347
Wang, Hao. 439
Kleene, S. C. 439
Goodman, N. 440
Myhill, J. 440
Moh, Shaw-Kwei. 440
Rosser, J. B. 440
Quine, W. V. 440
Swift, J. D. 440
Kreisel, G. 440
Katětov, M. 441
Knaster, B. 441
*Staber, E. R. 441
Dürr, K. 524
*Kleene, S. C. 525
*Rosser, J. B.- Turquette, A. R. 526
Skolem, T. 526
Dreben, B. 526
Myhill, J. 526, 527
Curry, H. B. 527
Ridder, J. 527
*Poirier, R. 527
Goodstein, R. L. 527
Schütte, K. 527
Kalmár, L. 528
Łukasiewicz, J. 713
Kalmár, L. 713
Rice, H. G. 713
Péter, R. 713
Beth, E. W. 714
Dienes, Z. P. 714
Scholz, H. 714
Routledge, N. A. 714
Takeuti, G. 714
Lorenzen, P. 714
Dieudonné, J. 715
Ackermann, W. 834
Sobociński, B. 834
Rose, A. 834
Götlind, E. 834
Carruccio, E. 834
Grzegorczyk, H. 834
Shepherdson, J. C. 834
Lorenzen, P. 835
Osborn, R. 835
Yin, Fu-Sheng. 835
Gericke, H. 935
Izumi, Y. 936
Myhill, J. 936
Wang, Hao. 936
Rose, A. 936
Zykov, A. A. 936
Curry, H. B. 936
Kreisel, G. 937
Yablonskiĭ, S. V. 937
Berecaki, I. 937
Martin, R. M. 937
Skolem, T. 937
Löb, M. H. 938
Ryll-Nardzewski, C. 938
Mostowski, A. 938
Rasiowa, H. 938
Myhill, J. 938
*Langer, S. K. 1051
Kalmár, L. 1051
Hermes, H. 1051
Craig, W. 1051
Feys, R. 1052
McNaughton, R. 1052
Davis, M. 1052
Hasenjaeger, G. 1052
Izumi, Y. 1052
Rose, A. 1052
Ridder, J. 1052
Henkin, L. 1052, 1053
Gilmore, P. C. 1053
Cohen, K. J. 1053
Łukasiewicz, J. 1053

Foundations of analysis.

Fogelis, E. 126
Novikov, P. S. 234
Chinčin, A. Ja. 234
Kreisel, G. 440
*Wilder, R. L. 441
*Katětov, M. 441
Knaster, B. 441
*Stabler, E. R. 441
Goodstein, R. L. 527
Kurepa, G. 612
*Vogel, A. 627
Urciuolo, V. 627
Rohrbach, H. 714
Lorenzen, P. 714
Gokieli, L. P. 715
Grzegorczyk, H. 834
Shepherdson, J. C. 834
Lorenzen, P. 835
Grünbaum, A. 835
Kurepa, Đ. 938

LOMMEL FUNCTIONS. See: special functions (Bessel functions).

LOOPS. See: groups (generalized groups).

MACHINES. See: numerical methods (instruments).

MAGIC SQUARES. See: number theory (magic squares).

MAGNETISM. See: electricity (general theory; potentials); geophysics (potentials; geoelectricity, magnetism); potential theory (special potentials).

MAPS, THEORY OF. See: differential geometry (special mapping problems).

MARKOV CHAINS. See: probability (Markov chains).

MATHIEU FUNCTIONS. See: special functions (Legendre functions; functions defined by differential equations).

MATRICES. See: algebra: linear.

MAXIMUM PRINCIPLE. See: functions of complex variables (Schwarz lemma).

MEASURABILITY PROBLEMS. See: sets (measurability problems).

MEASURE AND INTEGRATION. Cf. Calculus; ergodic theory; functional analysis; functions of real variables; sets (measurability problems).

Markus, L. 471 *Munroe, M. E. 734 *Bourbaki, N. 960
*Mayrhofer, K. 733 Markus, L. 751

Classical Riemann-Stieltjes and Lebesgue theory. Cf. Continued fractions (metric theory).

Stöhr, A. 24 Kudryavcev, L. D.- 855
Pi Calleja, P. 28 Kaščenko, Yu. D. 457 Stöhr, A. 855
Gomes, R. L. 28 Cafiero, F. 457 Rényi, A. 886
*Gomes, R. L. 147 Marczewski, E. 567 Hartman, S. 960
Burkill, J. C. 149 Lorentz, G. G. 626 *Rogosinski, W. W. 964
Marmaraŝvili, G. A. 163 Aumann, G. 628 Pregnolato, G. T. 964
Hvedelidze, B. V. 181 García Pradillo, J. 628 Rogers, C. A. 965
Goffman, C. 256 Kondô, M.- Hsu, L. C. 965
*Picone, M.- Tugue, T. 733 *Rudin, W. 1070
Viola, T. 256 Králík, D. 735 Marczewski, E.-
De Giorgi, E. 257 Pi Calleja, P. 735 Ryll-Nardzewski, C. 1070
Aquaro, G. 257 Brunk, H. D.- Marczewski, E. 1070
Gahariya, K. K. 257 Ewing, G. M. 735 Riesz, M. 1071
*Riesz, F.- Kinokuniya, Y. 736 Riesz, F. 1071
Sz.-Nagy, B. 286 Jessen, B. 855 Rényi, A. 1071
Areškin, G. Ya. 362 Wilansky, A. 855 Lévy, P. 1071
Kitagawa, T. 457 Goffman, C. 855

Denjoy theory and related topics.

Alexiewicz, A. 27 Džvarŝeĭšvili, A. G. 628 Celidze, V. G. 735
Džvarŝeĭšvili, A. G. 28 Ellis, H. W. 628
Burkill, H. 162 Džvarŝeĭšvili, A. G. 635

Area, lengths. Cf. Calculus of variations (generalized geometrical theory).

Besicovitch, A. S. 28 Cesari, L.- Newman, M. H. A. 733
Viola, T. 28 Fullerton, R. E. 150 Taylor, S. J. 856
Silberman, E. 149 Cacciopoli, R. 257, 258 Lesovoĭ, B. V. 856
Federer, H. 149 Reifenberg, Hadwiger, H. 964
E. R. 363, 629 Cecconi, J. 1072

Abstract theory of measure, integration and differentiation.

Łoś, J. 27 Kudô, H. 256 Davies, R. O. 733
Kawada, Y. 27 Kappos, D. A. 256 Tomita, M. 734
Alexiewicz, A. 27 Kametani, S. 256 Krickeberg, K. 735
Hadwiger, H. 28 Cafiero, F. 362 Buck, R. C. 854
Bobynin, M. N. 28 Dubrovskiĭ, V. M. 456 Hewitt, E. 854, 964
Hayes, C. A., Jr. 28, 29 Denjoy, A. 456 Segal, I. E. 991
Marczewski, E.- Kitagawa, T. 457 Dowker, Y. N. 1003
Sikorski, R. 147 Ninomiya, N. 469 Haupt, O.-
Nunke, R. J. - Enomoto, S. 544 Pauc, C. Y. 1070
Savage, L. J. 147 Haupt, O.- Alexiewicz, A. 1070
Hadwiger, H.- Pauc, C. Y. 544 Calderon, A. P. 1071
Kirsch, A. 147 Pauc, C. 545 Maharam, D. 1071
Taylor, S. J. 147 Haupt, O. 627

Integration in abstract spaces. Cf. Groups (continuous groups).

Katětov, M. 27 Gelbaum, B. R.- Hewitt, E. 545
Enomoto, S. 27 Kalisch, G. K. 256 Orihara, M.-
Kirsch, A. 28 Tôyama, H. 352 Tsuji, K. 734
Grinblyum, M. M. 28 Hewitt, E. 362 *Hildebrandt, T. H. 735
Dixmier, J. 69 Hewitt, E.- Edwards, R. E. 963
Scarf, H. 126 Zuckerman, H. S. 362 Aumann, G. 963
Berezanskiĭ, Yu. M. 162 Mařík, J. 545 Brownell, F. H. 963
Pfeiffer, P. E. 963

MECHANICAL QUADRATURES. See: interpolation (mechanical quadratures); numerical methods (differentiation).

MECHANICS. Cf. Ballistics; elasticity; hydrodynamics; quantum mechanics; statistical mechanics.

*Lohr, E. 220 *Levi-Cività, T.- *Sommerfeld, A. 419
*Finzi, B. 325 Amaldi, U. 419 *Smart, E. H. 419

Foundations.

Christov, C. 215 *Loiseau, J. 916 McKinsey, J. C. C.-
Trent, H. M. 421 McKinsey, J. C. C.- Suppes, P. 1023
Toupin, R. A. 421 Sugar, A. C.- von Krbek. 1024
Le Corbeiller, P.- Suppes, P. 1023
Yeung, Ying-Wa. 421

Kinematics. Cf. Differential geometry (kinematical methods).

Bereis, R. 99 Kolčin, N. I. 420 Bordoni, P. G. 897
Buckens, F. 99 Yamada, K. 506 Novodvorskiĭ, E. P. 916
Hain, K. 214 Steward, G. C. 592 Pismanik, K. M. 916
Yudin, V. A. 214 Eremeev, N. V. 592 Grodzinski, P. 1024
Cerkudinov, S. A.- Iglisch, R.-Tietz, H. 694 Wundheiler, A. W. 1024
Speranskiĭ, N. V. 324 Litvin, F. L. 694 Gran Olsson, R. 1024
Dobrovol'skiĭ, V. V. 324 Budyka, Yu. N. 694 Tačnoff, I. 1024
Eremeev, N. V. 420 Kurovskiĭ, F. M. 807 *Mercalov, N. I. 1135
Pismanik, K. M. 420 Matthieu, P. 808 Serebrennikov, M. G. 1136

Elementary dynamics.

Gale, D. 99 Pöschl, T. 215 Oliveri, E. 916
Marsicano, F. R. 99 Stojanović, R. D. 324 Gilvarry, J. J. 916
Synge, J. L. 100 Hughes, J. V. 506 Murden, W. P., Jr. 1024
Stoppelli, F. 100 Ziegler, H. 592 Braunbek, W. 1136
Bödewadt, U. T. 100 Slezkin, N. A. 808

Higher dynamics. Cf. Astronomy; relativity; symbolic dynamics.

Aymerich, G. 100 *Levi-Cività, T.- Gallissot, F. 694
Nadile, A. 100 Amaldi, U. 419 Aržanyh, I. S. 694
Mendes, M. 100 *Sommerfeld, A. 419 Dedecker, P. 695
Meffroy, J. 100 *Smart, E. H. 419 Šurova, K. E. 808
Mineur, H. 100 Dobronravov, V. V. 420 *Sokolov, Yu. D. 910
Šul'gin, M. F. 100 Lichnerowicz, A.- Cenov, I. 916
Madhava Rao, B. S. 101 Aufenkamp, D. 421 Ura, T. 917
Mihailovitch, D. 101 Gallissot, F. 471 Mendes, M. 917
Segre, B. 209 Supino, G. 506 Backes, F. 917
Hély, J. 214 Nadile, A. 506 Capon, R. S. 917
Nambu, Y. 227 Gallissot, F. 507 Nadile, A. 917
Bucerius, H. 324 Pailloux, H. 507 Zeuli, T. 917
Haag, R. 324 Bustamante, E. 592 Grioli, G. 917
Gallissot, F. 325, 378 Dobronrabov, V. V. Tačnoff, I. 1136
Mönnig, P. 379 592, 593
Fricke, A. 383 Wolkowitsch, D. 675

Oscillations. Cf. Differential equations (nonlinear oscillations).

Gantmaher, F. R.- Pöschl, T. 324 Erdős, P. 1136
Krein, M. G. 178 de Castro Brzezicki, Heinrich, G. 1136
Manolov, S. 215 A. 808

Special problems. Cf. Potential theory (special potentials).

Müller, W. 215 Urbański, W. S. 695 Agostinelli, C. 1024
Braams, C. M. 421 Leimanis, E. 695 Sretenskiĭ, L. N. 1024
Hugenholtz, N. M. 421 Fridlender, G. O. 808 Koĭlyakov, V. N. 1025
Stoppelli, F. 421 Letov, A. M. 808 Kosmodem'yanskiĭ, A. A. 1025
Metelicyn, I. I. 421 Sapa, V. A. 917 Bade, W. L. 1026
Merkulov, V. I. 507 Poritsky, H. 918

MECHANICS, NONLINEAR. See: differential equations (nonlinear oscillations).

MECHANICS OF CONTINUA. See: acoustics; elasticity; geophysics; hydrodynamics.

MELLIN TRANSFORMS. See: integral transforms (Mellin transforms).

MEROMORPHIC FUNCTIONS. See: functions of complex variables.

METEROLOGY. See: geophysics.

METRIC GEOMETRY. See: differential geometry; geometry; topology.

METRIC SPACES. See: differential geometry; functional analysis; geometry; topology.

MINIMAL SURFACES. See: calculus of variations (minimal surfaces); differential geometry (minimal surfaces).

MINKOWSKI GEOMETRY. See: geometry (Minkowski).

MODULAR FUNCTIONS. See: elliptic functions (automorphic functions); number theory (analytical tools).

MODULAR GROUPS. See: elliptic functions (modular groups).

MOLECULAR THEORIES. See: quantum mechanics (molecular theories).

MOMENTS, PROBLEM OF. Cf. Completely monotone functions; statistics (frequency functions).

Mikusiński, J. G.- 40
Ahiezer, N. I. 145
Glazman, I. M. 145
*Mandelbrojt, S. 542
San Juan, R. 543
Devinatz, A. 659
Krein, M. G. 868
Sz.-Nagy, B. 1096

MONOGENIC FUNCTIONS. See: functions of complex variables (quasi-analytic functions).

MULTIGROUPS. See: groups (generalized groups).

NETS. See: differential geometry; topology (graphs).

NETWORKS, ELECTRIC. See: electricity (networks).

NOMOGRAPHY. See: numerical methods (nomography).

NON-EUCLIDEAN GEOMETRY. See: geometry (non-Euclidean).

NONLINEAR MECHANICS. See: differential equations (nonlinear oscillations).

NORMAL FAMILIES. See: functions of complex variables (normal families).

NUCLEAR PHYSICS. See: quantum mechanics (elementary particles).

NUMBER THEORY. Cf. Continued fractions (number-theoretical applications); Diophantine approximations; tables (number-theoretical).

*Davenport, H. 352
*Stewart, B. M. 353
*Leman, A. 360
*Neiss, F. 450
*Hasse, H. 534
*Kraitchik, M. 535
Pohlack, H. 822

Elementary theory of numbers.

Coxeter, H. S. M. 136
Kaprekar, D. R. 247
Moessner, A. 353
Perron, O. 353
Carletti, E. 353
Draxin, M. P. 450
Waterson, A. 535
Tallqvist, H. 536
Miller, J. C. P. 536
Thébault, V. 724
Grün, O. 724
Kanold, H.-J. 724
Kaprekar, D. R. 846
Paasche, I. 846
Salié, H. 846
Thébault, V. 846
Jarden, D. 846
Thébault, V. 949
Jarden, D. 987
Braumaan, P. B. T. 1053
Vorob'ëv, N. N. 1062

Magic squares.

*Meister, F. 247
Reissig, R. 725

Congruences.

Mann, H. B. 5
Ore, O. 20
Matulewicz, K. 20
Cugiani, M. 20
Brauer, A.- 21
Reynolds, R. L. 21
Skolem, T. 353
Brčić-Kostić, M. 353
Hanneken, C. B. 353
Dynkin, E. B.- 455
Uspenskiĭ, V. A. 455
Mordell, L. J. 536
Cohen, E. 538
Carlitz, L. 539, 621
Cohen, E. 725
Carlitz, L. 726
Gloden, A. 846
Carlitz, L. 951
Knödel, W. 1062
Carlitz, L. 1064

Diophantine equations and representation problems.

*Xeroudakes, G. P.- 19
Fasoulakes, K. N. 19
Nagell, T. 19
Skolem, T. 19
Alef. 20
Kanold, H.-J. 20
Palamà, G. 20
Mycielski, J. 20
Moessner, A. 136
Gloden, A. 136
Skolem, T. 136
Ljunggren, W. 136
Bini, U. 137
Hasse, H. 140
Morgantini, E. 247
Hemer, O. 247
Stolt, B. 247
Nagell, T. 247
Ljunggren, W. 353
Stolt, B. 354
Hemer, O. 354
Duarte, F. J. 354
Häggmark, P. 354
Georgiev, G. 354
Samet, P. A. 354
Ankeny, N. C. 354
Cugiani, M. 356
Liljunggren, W. 450
Buquet, A. 450
Leonardi, R. 450
Gloden, A. 450
Obláth, R. 536
Cassels, J. W. S. 536

NUMBER THEORY. (Continued)

Diophantine equations and representation problems. (Continued)

Val'fiš, A. Z. 537
Selmer, E. S. 621
Aigner, A. 621
Lomadze, G. A. 622
Moessner, A. 725
Barnes, E. S. 725
Morgantini, E. 725
Hegner, K. 725
Obláth, R. 846
Misra, B. 950
Kontorovič, P. G.- 950
Mil'man, D. I. 950
Gloden, A. 950
Mills, W. H. 950
Xeroudakes, G. P. 950
Moser, L. 950
Georgiev, G. 950
Hall, M., Jr. 1063
Bronkhorst, P. 1063
Rivier, W. 1063
Georgiev, G. 1063

Geometry of numbers.

Bambah, R. P.- 22
Roth, K. F. 22
Davenport, H. 75
Gericke, H. 131
Barnes, E. S. 142
Mordell, L. J. 142
Rogers, C. A. 143
Varnavides, P. 143
Malyšev, A. V. 143
Ramanathan, K. G. 252
Rogers, C. A. 253
Ap Simon, H. 253
Chabauty, C. 454
Mordell, L. J. 540
Swinnerton-Dyer, H. P. F. 540
Hlawka, E. 540
Scherk, P. 541
Chabauty, C. 541
Tsuji, M. 623
Oberenshaw, K. 850
Chabauty, C. 850
Mahler, K. 850
Maxfield, J. E. 851
Cassels, J. W. S. 954
Inkeri, K. 1065
Watson, G. L. 1065
Rankin, R. A. 1065
Cozeter, H. S. M.- Todd, J. A. 1066
Erdös, P.- Rogers, C. A. 1066
Prachar, K. 1066

Divisibility and factorization problems.

Duparc, H. J. A. 21
Sklar, A. 356
Iseki, K. 536
Carlitz, L. 539
Brun, V.- Stubban, J. O.- Fjeldstad, J. E.- Lyche, R.- Aubert, K. E.- Ljunggren, W.- Jacobsthal, E. 724
Hall, J. S. 1063

Power residues and laws of reciprocity.

Skolem, T. 21
Nagell, T. 21, 247, 248
Delcourte, M. 248
Perron, O. 450
Zassenhaus, H. J. 450
Selmer, E. S. 539
Aigner, A. 621
Carlitz, L. 621
Korobov, N. M. 846
Kustaanheimo, P. 949
Davenport, H.- Erdös, P. 1063

Algebraic number theory, number fields. Cf. Algebra: abstract (fields).

Rédei, L.- Steinfeld, O. 10
Skolem, T. 19
Brauer, A.- Reynolds, R. L. 21
Overholtzer, G. 21
*Schwarz, Š. 22
Krull, W. 23
Carlitz, L. 23
Šafarevič, I. R. 139
Inaba, E. 139
Iseki, K. 140
Hasse, H. 140
Gorenstein, D. 198
Carlitz, L. 250
Skolem, T. 251
Specht, W. 251
Inaba, E. 251
Cohn, H. 251
Lewis, D. J. 251
Lang, S.-Tate, J. 252
Vandiver, H. S. 348
Kawada, Y. 348
Samet, P. A. 354
Ankeny, N. C. 354
Prachar, K. 357
Carlitz, L. 357
Vandiver, H. S. 358
Brandt, H. 358
Cassels, J. W. S. 358
Bergman, G. 451
Aigner, A. 452
Iseki, K. 452
Tatuzawa, T. 452
Weil, A. 452
Dynkin, E. B.- Uspenskiĭ, V. A. 455
Osima, M. 530
Val'fiš, A. Z. 537
Varnavides, P. 537
Iseki, K. 537
MacKenzie, R. E. 537
Hasse, H. 538
Dufresnoy, J.- Pisot, C. 538
Cohen, E. 538
Carlitz, L. 539
Eichler, M. 540
Redheffer, R. M. 541
Aigner, A. 621
Whiteman, A. L. 621
Mahler, K. 624
Specht, W. 728
Kanold, H.-J. 728
Dénes, P. 728
Terada, F. 729
Jehne, W. 729
Eljoseph, N. 848
Carlitz, L. 848
Iwasawa, K. 849
LeVeque, W. J. 850
Eichler, M. 851
Tamagawa, T. 951
Cugiani, M. 951
Carlitz, L. 951, 952
Dinghas, A. 952
Flanders, H. 952
Remak, R. 952
Nakayama, T. 952
Moriya, M. 952
*Takagi, T. 953
Šafarevič, I. R. 1065
Flanders, H. 1065
Peck, L. G. 1066
von Neumann, J.- Goldstine, H. H. 1126

Class fields and class numbers. Cf. Algebra: abstract (Galois theory).

Iseki, K. 140
Whaples, G. 140
Hasse, H. 140
*Hasse, H. 141
Ankeny, N. C.- Artin, E.- Chowla, S. 251
Tate, J. 252
Deuring, M. 356
Iseki, K. 452
Tatuzawa, T. 452
Satake, I. 452
Moriya, M. 452
Nakayama, T. 453
Iseki, K. 537
Hasse, H. 538
Aigner, A. 621
Ankeny, N. C. 622
Iwasaki, K. 622
Jehne, W. 729
Witt, E. 845
Iwasawa, K. 849
Nakayama, T. 952
Moriya, M. 952
*Takagi, T. 953

Theory of forms. Cf. Elliptic functions (automorphic functions; modular groups).

Flanders, H. 22
Venkov, B. A. 22
Gericke, H. 131
Rankin, R. A. 139
Iwasawa, K.- Tamagawa, T. 139
Barnes, E. S. 142
Mordell, L. J. 142
Rogers, C. A. 143
Varnavides, P. 143
Chalk, J. H. H. 252
Davenport, H. 252
Kanagasabapathy, P. 252
Ramanathan, K. G. 252
Brandt, H. 358
Cassels, J. W. S. 358
Barnes, E. S. 358
Ramanathan, K. G. 453
Brandt, H. 453, 454
*Eichler, M. 540
Mordell, L. J. 540
Cohn, H. 540
Schmetterer, L. 623
van der Blij, F. 623
Černý, K. 623
Barnes, E. S. 739
Barnes, E. S.- Swinnerton-Dyer, H. P. F. 730
Inkeri, K. 730

NUMBER THEORY. (Continued)

Theory of Forms. (Continued)

Brandt, H. 730
Jones, B. W. 850
Cassels, J. W. S. 954
Voronoĭ, G. F. 954
Oppenheim, A. 954, 955
Watson, G. L. 955
Barnes, E. S. 955
Barnes, E. S.-Swinnerton-Dyer, H. P. F. 956
Chalk, J. H. H. 1065
Inkeri, K. 1065
Rankin, R. A. 1065
Coxeter, H. S. M.-Todd, J. A. 1066

Fermat's last theorem.

Mihaljinec, M. 20
Natucci, A. 20
Bini, U. 137
Dénes, P. 451
Obláth, R. 536
Vandiver, H. S. 725
Griselle, T. 949

Additive theory of numbers.

Rai, T. 138
Gupta, H. 138
Gustin, W. 138
Auluck, F. C.-Haselgrove, C. B. 138
Iseki, K. 139
Watson, G. L. 250
Obláth, R. 356
Cugiani, M. 356
Bellman, R.-Shapiro, H. N. 356
Sandham, H. F. 356
Sprague, R. 451
Prachar, K. 451
Šapiro-Pyateckiĭ, I. I. 451
Hasse, H. 538
Lomadze, G. A. 622
Rai, T. 726
Moser, L. 726
Prachar, K. 726
Erdős, P. 726
Basu, N. M. 726
Auluck, F. C. 726
Korobov, N. M. 846
Pennington, W. B. 846
Ayoub, R. 847
Linnik, Yu. V. 847
Utz, W. R. 949
Salié, H. 949
Palamà, G. 1065

Number-theoretical functions.

Straus, E. G. 21
Toscano, L. 21
Shapiro, G. 21
Carlitz, L. 22
Vinogradov, I. M. 22
Aubert, K. E. 137
Rai, T. 138
Hovanskiĭ, A. N. 138
Carlitz, L. 138
Slater, L. J. 138
Bailey, W. N. 138
Gustin, W. 138
Durst, L. K. 139
Day, J. W. R. 248
Wiebelitz, R. 248
Dragonette, L. A. 248
Čudakov, N. G.-Rodosskiĭ, K. A. 249
Tatuzawa, T. 249
Rodosskiĭ, K. A. 249
Erdős, P.-Mirsky, L. 249
Mirsky, L. 249
Rushforth, J. M. 249
Newman, M. 250
Simons, W. H. 250
Richert, H.-E. 349
Sierpiński, W. 355
Bellman, R.-Shapiro, H. N. 356
Sandham, H. F. 356
Cassels, J. W. S. 454
Miloň, K. 478
Roth, K. F. 536
Iseki, K. 536
Ricci, G. 536
Williams, G. T. 536
Venkataraman, C. S. 537
Carlitz, L. 539
Selmer, E. S. 539
Bang, T. 621
Carlitz, L. 621
Whiteman, A. L. 621
Prachar, K. 726
Singh, Daljit. 727, 728
Rodosskiĭ, K. A. 728
Pennington, W. B. 846
Ayoub, R. 847
Linnik, Yu. V. 847
Larsen, O. 847
Carlitz, L. 847
Mikolás, M. 950
Perron, O. 950
Anderson, D. R.-Apostol, T. M. 951
Newman, M. 951
Tamagawa, T. 951
Touchard, J. 1063
Brauer, A. 1064
Carlitz, L. 1064

Theory of primes: distribution of primes. Cf. Dirichlet series (zeta functions).

van de Vooren-van Veen, J. F. 22
Palamà, G. 137
Wright, E. M. 137
Turán, P. 137
dos Reis, M. 137
Borel, E. 248
Fournier, G. 248
Ankeny, N. C. 249
Erdős, P.-Mirsky, L. 249
Sierpiński, W. 355
Nagura, J. 355
Knödel, W. 355
Wright, E. M. 355
Linnik, Yu. V. 355
Iseki, K. 356
*Borel, E. 620
Bang, T. 621
Thompson, J. 621
Horváth, J. 726
Selberg, A. 726
Ricci, G. 727
Weil, A. 727
Kyhl, H. 847
Kubilyus, I. P. 847
Borel, E. 950
Hall, J. S. 1063
Touchard, J. 1063
Wright, E. M. 1063
Lekkerkerker, C. G. 1064

Analytic theory of numbers in number fields and fields of functions. Cf. Elliptic functions.

Durst, L. K. 139
Iwasawa, K.-Tamagawa, T. 139
Hasse, H. 140
Iwasawa, K.-Tamagawa, T. 356
Deuring, M. 356
Fawas, A. Y. 537
Carlitz, L. 539
Ankeny, N. C. 622
Iwasaki, K. 622
Roquette, P. 622
Fröhlich, A. 623
Kubilyus, I. P. 847
Roquette, P. 848

Lattice points.

Chalk, J. H. H. 252
Davenport, H. 252
Kanagasabapathy, P. 252
Sawyer, D. B. 253
Rogers, C. A. 253
Ap Simon, H. 253
Richter, M. 540
Swinnerton-Dyer, H. P. F. 540
Hlawka, E. 540
Scherk, P. 541
Macbeath, A. M. 624
Cassels, J. W. S. 624
Ollerenshaw, K. 624
Rogers, C. A. 624
Rankin, R. A. 624
Lochs, G. 750
Bambah, R. P.-Davenport, H. 787
Mahler, K. 850
Eichler, M. 851
Richert, H.-E. 956
Watson, G. L. 1065
Cohn, H. 1066

Analytical tools. Cf. Diophantine approximations (equidistribution problems); Dirichlet series; elliptic functions.

Bochner, S. 43
Rodosskiĭ, K. A. 451

NUMERICAL AND GRAPHICAL METHODS. Cf. Tables.

Purchvanidze, A. V. 411
*Hartree, D. R. 690
Blanc, C. 691
*Bezicovici, I. S. 799
*Sadosky, M. 906
Burkhart, W. H. 1018
Wasow, W. 1018

NUMERICAL AND GRAPHICAL METHODS. (Continued)

Arithmetical operations.

Hammersley, J. M. 91
Burke, P. J. 209
Teichroew, D. 209
Tallqvist, H. 587

Equations. Cf. Actuarial mathematics (mathematics of finance).

*Šumyagskiĭ, B. M. 91
Salehov, G. S. 91
Smolyakov, P. T.-Hovanskiĭ, A. N. 209
Olver, F. W. J. 209
Aitken, A. C. 209
Tasny-Tschiasny, L.-Doe, A. G. 210
Collatz, L. 322
van den Dungen, F. H. 412
Collatz, L. 412
Salzer, H. E. 412
Wenzl, F. 412
Mysovskih, I. P. 587
Obmoršev, A. N. 691
Bruins, E. M. 800
Myrhøj, A. M. S. 800
Stone, W. M. 800
Blaquière, A. 800
Davidenko, D. F. 906
de la Garza, A. 906
Ceschino, F. 1019
von Neumann, J.-Goldstine, H. H. 1126
Bateman, E. H. 1126

Systems of linear equations, determinants.

Fox, L. 92
Forsythe, G. E. 92
Rosser, J. B.-Lanczos, C.-Hestenes, M. R.-Karush, W. 92
Arżanyh, I. S. 92
Unger, H. 92
Duncan, W. J. 209
Stein, M. L. 322
Maslov, P. G. 322
*Faddeeva, V. N. 412
Lopshits, A. M. 412
Gavurin, M. K. 412
Birman, M. S. 412
Azbelev, N.-Vinograd, R. 412
Kašanin, R. 501
Angelitch, T. 501
Kikukawa, M. 501
Michkovitch, V. V. 501
Voetter, H. 501
Krasnosel'skiĭ, M. A.-Krein, S. G. 501
Lanczos, C. 501
Cicala, P. 587
van der Heiden, J. A. 691
Unger, H. 692
Filipowsky, R. 692
Sassenfeld, H. 692
Krasnosel'skiĭ, M. A.-Krein, S. G. 692
Brodskiĭ, M. L. 692
Collatz, L. 799
Bejarano, G. G.-Rosenblatt, B. R. 906
Wasow, W. 1018
Edmundson, H. P. 1018
Kimball, B. F. 1019
Rubinstein, H.-Rutledge, J. D. 1019
Orden, A. 1019
Kimball, B. F. 1127
Guest, P. G. 1127
Piotrowski, S. L. 1127
Bjerhammar, A. 1127
Karush, W. 1127
Lopšic, A. M. 1127
Rosser, J. B. 1128
Burger, A. P. 1128
Kac, A. M.-Čekmarev, A. I. 1128
Lavut, A. P. 1128
Bodewig, E. 1128
Herrmann, A. 1129
Mayanc, L. S. 1129

Differences, interpolation and graduation. Cf. Differences; errors; interpolation.

Grosch, H. R. J. 91
Krawitz, E. 91
Guest, P. G. 321
Michalup, E. 321
Ostrowski, A. M. 321
Sackmann, L. A. 321
Niven, I. 411
Lah, I. 411
Ginsburg, B. L. 691
Vernotte, P. 800
Arin', E. G. 800
*Yakovlev, K. P. 906
Vernotte, P. 906
Jeffreys, H. 906
Davis, P. 907
Chandra Sekar, C.-Chakraborty, P. N. 995
Kimball, B. F. 1019
Grant, F. S. 1021
Picone, M. 1067
Mikeladze, Š. E. 1126
Stange, K. 1127
Huber, A. 1127
Kimball, B. F. 1127
Guest, P. G. 1127

Special constants.

Siegel, K. M.-Crispin, J. W.-Kleinman, R. E.-Hunter, H. E. 321
Uhler, H. S. 411
Storchi, E. 411
von Neumann, J.-Goldstine, H. H. 1126
Turing, A. M. 1126

Computation of series. Cf. Differences (summation formulas); series.

Pflanz, E. 321
Spencer, R. C.-Parke, N. G., III. 322
Lubkin, S. 500
Skory, J. 568

Differentiation and integration.

Salzer, H. E.-Zucker, R.-Capuano, R. 90
Hartley, H. O. 91
Sheldon, J. W. 91
Hammersley, J. M. 321
Tietz, H. 322
Barrett, W. 412
Luke, Y. L. 413
Mineur, H. 413
Brock, P.-Murray, F. J. 413
Henrici, P. 589
Sharpe, J. A.-Fullerton, P. W. 589
Birindelli, C. 626
Synge, J. L. 693
Löwdin, P.-O. 693
Štykan, A. B. 800
Albrecht, J. 907
Mikeladze, Š. E. 907
Amble, O. 907
Myard, F. 907
Spencer, L. V. 907
Salzer, H. E. 1018
Brun, V. 1019
Zadunaisky, P. E. 1019
v. Sanden, H. 1129
Grossman, D. P. 1129

Differential and integral equations.

Andreev, B. A. 92
Herget, P. 93
Lindberger, N. A. 93
Johnson, W. H. 93
Chatterji, L. D. 93
*Panov, D. Yu. 93
Yowell, E. C. 93
Wasow, W. 93
Taub, A. H. 93
van den Dungen, F. H. 93
Bückner, H. 94
Kourganoff, V.-Pecker, C. 94
Imai, I.-Kaji, I.-Umeda, K. 102
Łopuszanski, J. 209
Bechert, K. 210
Panov, D. Yu. 210
Mitrović, D.-Tomović, R. 210
Holms, A. G. 210
*Bückner, H. 210
Weissinger, J. 210
Griffith, B. A.-Smillie, K. W. 210
Söchting, F. 322
*Mühly, H. J. 323
Rapoport, I. M. 323
Luzin, N. N. 323
Richter, W. 323
Hovanskiĭ, A. N. 323
Schäfer, M. 323
Ł'vgol'c, L. Ł. 323
Gibbons, J. J.-Schrag, R. L. 323
Löwdin, P.-O. 413
Šura-Bura, M. R. 413
Zurmühl, R. 413
Blanch, G. 413
Flügge, S. 413
Vorob'ev, Yu. V. 413
Wiskott, D. 414
Kohn, W. 414
Agodi, A. 414
King, G. W. 414
Laudet, M. 414
Bohan, N. A. 414
Samollova-Yahontova, N. S.-Makover, S. G. 414

NUMERICAL AND GRAPHICAL METHODS. (Continued)

Differential and integral equations. (Continued)

Jacobsen, L. S. 502
Fjørtoft, R. 502
Díaz, J. B.-Roberts, R. C. 503
Dingle, R. B. 503
Urban, P. 503
Samuelson, P. A. 503
Yoshikawa, H. 503
Wang, Ming Chen.-Guth, E. 503
Slobodyanskiĭ, M. G. 502
Stiefel, E. 502
McCarthy, J. 557
Sauer, R. 559
Warga, J. 587
Muhin, I. S. 587
Zadiraka, K. V. 588
*Massau, J. 588
Alzenitat, N. D. 588
Collatz, L. 588
Grünsch, H. J. 588
Allen, D. N. de G.-Severn, R. T. 588
Bartlett, J. H. 588
van den Dungen, F. H. 588
Thornhill, C. K. 588
Schubert, H. 589
Seidel, W. 589
Fox, L. 693
Cahen, G. 693
Kulikov, N. K. 693
Myklestad, N. O. 693
Iino, R. 693
Fehlberg, E. 693
Motzkin, T. S.-Wasow, W. 693
van den Dungen, F. H. 693
Woods, L. C. 693
Horton, G. K.-Sharp, R. T. 694
Mikeladze, Š. E. 694
Courant, R.-Isaacson, E.-
Rees, M. 756
Collatz, L. 799
Fortet, R. 799
Štykan, A. B. 800
Matthieu, P. 800
Weissinger, J. 800
Pailloux, H. 800
v. Mises, R. 800
Rosenbloom, P. C. 800
Synge, J. L. 801
Austin, W. J.-Newmark, N. M. 801
Jaeger, J. C. 801
Schneider, P. J. 801
Thompson, P. D. 815
Charney, J. G.-Phillips, N. A. 816
Kourganoff, V. 879
Collatz, L. 907
Mitchell, A. R.-Craggs, J. W. 908
Klotter, K. 908
Crandall, S. H. 908
Lesky, P. 908
Garwick, J. V. 908
Fox, L.-Goodwin, E. T. 908
Mineur, H.-Peyturaux, R. 908
Young, D. M. 909
Garrick, I. E. 909
Ostrowski, A. M. 909
Swinford, L. H. 909
Gilvarry, J. J. 916
Thom, A.-Klanfer, L. 922
Wasow, W. 1018
Shortley, G. 1019
Alt, F. L. 1020
Bergman, S. 1020
Koehler, F. 1020
Svirskiĭ, I. V. 1020
Woods, L. C. 1020
Plunkett, R. 1030
Allen, D. N. de G.-Dennis, S. C. R. 1021
Myard, F. 1021
Ludford, G.-Polachek, H.-Seeger, R. J. 1032
Svirskiĭ, I. V. 1129
Tollmien, W. 1129
Arbelev, N. V. 1129
Roberson, R. E. 1130
Ladyženskaya, O. A. 1130
Levy, S.-Kroll, W. D. 1130
Cowling, T. G. 1130

Practical harmonic analysis. Cf. Statistics (time series).

Beevers, C. A.-Lipson, H. 323
Whiteley, T. B.-Alldredge, L. R. 323
Silva, G. 414
Cruickshank, D. W. J. 503
McFadden, J. A. 801
Milatz, J. M. W.-Wapstra, A. H.-Van Wieringen, J. S. 801
McDonal, F. J. 801

Instruments, machines.

Vogt-Nilsen, N. 94
*Cundy, H. M.-Rollett, A. P. 194
Rutishauser, H. 209
Mitrović, D.-Tomović, R. 210
Tamy-Tschiauny, L.-Doe, A. G. 210
Hersom, S. E.-Selig, K. L. 211
Tomovich, R. 211
Abbott, W. R. 211
Hargest, T. J. 211
Huard de la Marre, P. 211
Benscoter, S. U.-MacNeal, R. H. 211
Beard, M.-Pearcey, T. 323
Wolf, J. J. 323
Booth, A. D. 323
Raymond, F. 323
Beevers, C. A.-Lipson, H. 323
Whiteley, T. B.-Alldredge, L. R. 323
Carter, D. S. 324
Description of a magnetic drum calculator. 504
Platzman, G. W. 504
Wilkes, M. V. 504
Robinson, A. A. 504
Felker, J. H. 504
Lode, T. 504
Speiser, A. P. 504
Jowett, G. H. 504
Fritz, N. L. 504
Tucker, M. J. 504
Symon, K. R.-Poplawsky, R. P. 504
Saralegui, A. M. 504
Vaughan, D. C. 504
Boscher, J. 504
Alekseev, A. S. 504
Oettinger, A. G. 587
Biermann, L.-Billing, H. 589
Williams, F. C.-Kilburn, T.-Tootill, G. C. 589
Goodell, J. D. 691
Lehmer, D. H. 691
Wilkes, M. V.-Stringer, J. B. 691
Biermann, L.-Billing, H. 694
Brooker, R. A.-Wheeler, D. J. 694
Erismann, T. 694
Many, A.-Oppenheim, U.-Amitsur, S. 694
Scherberg, M. G.-Riordan, J. F. 694
Volkov, E. A. 694
Sobociński, B. 799
Sheldon, J.-Thomas, L. H. 799
Young, F. H. 801
Ludecke, C. A.-Morrison, C. L. 801
McDonal, F. J. 801
Malavard, L.-Boscher, J. 801
Bordén, A.-Shelton, G. L., Jr.-Ball, W. E., Jr. 801
Pajares, E. 801
[illegible]ay, H. J., Jr.-Rubinoff, M.-Sohon, H. 909
Dubois, F. 909
A new digital computor. 909
Pateman, J. E. 909
Ostapenko, V. N. 909
Nedelkow, I. 910
*Couffignal, L. 1021
Willers, F.-A. 1021
Ramsayer, K. 1021
Bösch, W. 1021
Chase, G. C. 1021
Gordon, B. M.-Nicola, R. N. 1021
Auerbach, A. 1021
Astrahan, M. M.-Rochester, N. 1021
Wallace, R. A. 1021
Levin, J. H. 1021
Goodell, J. D. 1130
Angelo, E. J., Jr. 1130

Nomography.

Urcelay, J. M. 211
Richter, W. 323
Neiluler, L. Ya. 504
Eremeev, N. V. 592
Yakovlev, K. P. 906
Gregg, C. V. 909
Schmid, H. 909
Vil'ner, I. A. 1021
Belgrano Brémard, J. C. 1130
*van Veen, H. J. 1130
Jeger, M. 1130
Watanabe, S. 1130

OCEANOGRAPHY. See: geophysics (hydrology, oceanography).

OPERATIONAL CALCULUS. Cf. Differential equations (applications of integral transforms).

Toscano, L. 31
Poli, L. 43
Manfredi, B. 173
Delerue, P. 372
Mitra, S. C.-
Bose, B. N. 515
Chakrabarty, N. K. 870
Thosar, Y. V. 870
Poli, L. 870
Kinokuniya, Y. 870
Delerue, P. 1032
Ryll-Nardzewski, C. 1097

OPERATORS. See: differential equations (differential operators); functional analysis.

OPTICS. Cf. Electricity (waves; diffraction).

Synge, J. L. 214
Galli, M. 214
Suchy, K. 821
Moon, P.-Spencer, D. E. 822
Lansraux, G. 1042
Hopkins, H. H. 1042

Geometrical optics. Cf. Differential geometry (differential line geometry).

Kiuti, M. 114
Steel, W. H. 114
Tedone, G. 114
Maecker, H. 114
Wolf, E. 224
Herzberger, M. 225
Herzberger, M.-Marchand, E. 225
Suzuki, T. 337
Maeder, D. 337
Fock, W. A. 337
Kontorovič, M. I.-Murav'ev, Yu. K. 337
Mikaèlyan, A. L. 431
Thomeschelt, A. 517
Mikaèlyan, A. L. 517
Satten, R. A. 603
Lense, J. 603
Schopper, H. 702
v. Fragstein, C. 702
Tallqvist, H. 822
Keller, J. B. 1042
Thomeschelt, A. 1148
Ishiguro, K.-Katô, T. 1148

Electron optics.

Štepa, N. I. 115
Glaser, V.-Gryumm, G. 115
Kel'man, V. M.-Rodnikova, I. V. 115
Vorob'ev, Yu. V. 413
Kleinwächter, H. 432
Bremmer, H. 337
Grümm, H. 431
Muscia, C. 432
Foix, A. 432
Sturrock, P. A. 432
Regenstreif, E. 517
Durand, E. 603
Glaser, W. 931
Grümm, H. 932
Abelès, F. 932

ORBITS. See: astronomy (orbits).

ORTHOGONAL FUNCTIONS AND EXPANSIONS. See: approximation (orthogonal functions); differential equations (boundary value problems); Fourier integrals; Fourier series; integral transforms; polynomials (polynomial approximations); special functions.

OSCILLATION AND COMPARISON THEOREMS. See: differential equations (ordinary linear).

OSCILLATIONS. See: differential equations; elasticity (wave propagation); hydrodynamics (wave propagation); mechanics (oscillations); numerical methods (differential equations; practical harmonic analysis).

p-ADIC THEORY. See: algebra: abstract (p-adic theory); number theory.

PARABOLIC DIFFERENTIAL EQUATIONS. See: differential equations; diffusion; functional analysis (existence theorems); heat condition; numerical methods (differential equations).

PARATINGENT. See: differential geometry (set-theoretical methods); functions of real variables (differentiation).

PARTIALLY ORDERED SETS. Cf. Continuous geometry; functional analysis (partially ordered spaces).

Inagaki, T. 27
Lorenzen, P. 127
Obreanu, F. 146
Frink, O. 238
Kurepa, G. 255
Gottschalk, W. H. 361
Vaughan, H. E. 362
Popadić, M. S. 528
Dubreil-Jacotin, L.-Croisot, R. 529
Carruth, P. W. 529
Norris, M. J. 733
Sedmak, V. 783
Kurepa, Đ. 960
Ginsburg, S. 1069

Lattices. Cf. Groups (lattice groups).

Klein-Barmen, F. 9
Sholander, M. 9
Matusima, Y. 9
Goldie, A. W. 9, 10
Ellis, D. 307
Petresco, J. 346
Trevisan, G. 346
Amitsur, S. A. 347
Zappa, G. 446
Kelly, L. M. 494
Takeuchi, K. 529
Iseki, K. 529
Pickert, G. 529
Sorkin, Yu. I. 612
Bergmann, G. 612
Raney, G. N. 612
Schützenberger, M. P. 612
Szász, G. 612
Greco, D. 618
Permutti, R. 618
Zitarosa, A. 618
Sato, S. 618
*Baer, R. 675
Inaba, E. 717
Iseki, K. 717
Dilworth, R. P.-McLaughlin, J. E. 717
Aubert, K. E. 718
Szász, G. 838
Utumi, Y. 838
Matsushita, S. 838
Jordan, P. 841
Onoyama, T. 886
Gomes, A. P. 892
Nagata, J. 892
Cuesta, N. 895
Büchi, J. R. 940
Petresco, J. 940
Koutský, K. 1001
Zappa, G. 1056
Horn, A. 1107

PARTIALLY ORDERED SETS. (Continued)

Boolean algebras and rings.

Carnap, R. 4
Łoś, J. 27
Sikorski, R. 70
Nikodým, O. M. 126
Fell, J. M. G.-
Tarski, A. 130
Kuratowski, C.-
Mostowski, A. 131
Mostowski, A. 131
Marczewski, E.-
Sikorski, R. 147
Nunke, R. J.-
Savage, L. J. 147
Katětov, M. 237
Rieger, L. 238
Löwig, H. 238
Ćetković, S. 238
Aumann, G. 346
Luce, R. D. 347
Rieger, L. 347
Sikorski, R. 347
Aubert, K. E. 529
Haupt, O.-
Pauc, C. Y. 544
Pauc, C. 545
Laman, G. 576
Ellis, D. 576
Petresco, J. 612
Fuchs, L. 612
Tomita, M. 734
Sobociński, B. 799
Dekker, J. C. E. 838
Krishnan, V. S. 838
Sikorski, R. 839
Stanojević, C. V. 854
Hewitt, E. 854
Elliott, J. G. 1056
Aubert, K. E. 1056
Haupt, O.-
Pauc, C. Y. 1070
Wallace, A. D. 1108

PARTIALLY ORDERED SPACES. See: functional analysis (partially ordered spaces).

PARTITIONS. See: combinatorial analysis; number theory (elementary; additive; number-theoretical functions).

PERTURBATIONS. See: astronomy; differential equations.

PFAFF PROBLEM. See: differential equations (total equations).

PHILOSOPHY OF MATHEMATICS AND PHYSICS. Cf. Intuitionism; logic.

Freudenthal, H. 5
Hoenen, P. 5
*Samuel, H. L. 114
Jordan, P. 114
Greenwood, T. 124
Aleksandrov, A. D. 234
Rieger, L. 343
Poirier, R. 527
Rostand, F. 528
Hönl, H. 528
Gokieli, L. P. 715
Apéry, R. 715
Bouligand, G. 715
Geymonat, L. 715
Hasse, H. 715
*Apostle, H. G. 813
Reidemeister, K. 835
Lorent, H. 835
Coulson, C. A. 835
*Destouches, J.-L. 1042

PHRAGMÉN-LINDELÖF PRINCIPLE. See: functions of complex variables (Schwarz lemma).

PICARD THEOREM. See: functions of complex variables (Picard theorem).

PLASTICITY. See: elasticity (plasticity).

PLATEAU PROBLEM. See: calculus of variations (minimal surfaces); differential geometry (minimal surfaces).

PLATES. See: elasticity (plates).

POINT SETS. See: convex bodies; differential geometry (set-theoretical methods); functional analysis; functions of real variables (differentiation); measure and integration; potential theory (capacity constants); sets; topology.

POLITICAL ARITHMETIC. See: actuarial mathematics (mathematics of finance).

POLYHARMONIC FUNCTIONS. See: harmonic functions (biharmonic functions).

POLYHEDRA. See: geometry; topology.

POLYNOMIALS. Cf. Algebra: equations; Fourier series (trigonometric polynomials); interpolation.

Zeros. Cf. Functions of complex variables (zeros); numerical methods (equations).

Obreškov, N. 164
Parodi, M. 164
Walsh, J. L. 164
Raljević, S. 268
Gaspar Teixeira, J. 268
Markovitch, D. 269
Atkinson, F. V. 269
Berghuis, J. 269
Mohr, E. 465
Sz.-Nagy, G. 465
Tietze, H. 466
Bandić, I. 466
Gatteschi, L. 466
Sharma, A. 640
Venkataraman, C. S. 640
Dias Agudo, F. R. 640
Schmutz, O. 747
Chamberlin, E.-
Wolfe, J. 870
Marković, D. 965
Morris, J. 977
Kelly, J. B. 977
Sz.-Nagy, G. 1082
Obrechkoff, N. 1082
Koenig, J. F. 1082
Rényi, A.-
Turán, P. 1082

Irreducibility, representation problems.

Carlitz, L. 163, 250
Skolem, Th. 251
Specht, W. 251
Carlitz, L. 539
McCoy, N. H. 613
Kneser, M. 613
Parodi, M. 640
Tallqvist, H. 640
Varnum, E. C. 640
Specht, W. 728
Kelly, J. B. 977
Turán, P. 1082

POLYNOMIALS. (Continued)

Extremal problems. Cf. Functions of complex variables (extremal problems); inequalities.

Thiruvenkatachar, V.R.-
Nanjundiah, T. S. 44
Walsh, J. L. 164
Geronimus, Ya. L. 166

Special polynomials, orthogonal polynomials. Cf. Special functions.

Mahajani, G. S.-
Thiruvenkatachar, V. R.-
Thawani, V. D. 8
Thiruvenkatachar, V. R.-
Nanjundiah, T. S. 44
Head, J. W. 163
Neville, E. H. 163
Geronimus, Ya. L. 166
Delerue, P. 167
Dinghas, A. 167
van Langendonck, T. 221
Berghuis, J. 269
Tomić, B. 269
Toscano, L. 269
Carlitz, L. 346
Karamata, J. 372
Aljančić, S. 373
Gatteschi, L. 466
Orts, J. M.ª. 466
Tricomi, F. G. 466
Geronimus, Ya. L. 466
Carlitz, L. 640
Makar, Ragy H.-
Makar, Bushra H. 641
Mikhail, M. N. 641
Butzer, P. L. 641
Popov, B. S. 641
Grosswald, E. 747
Makai, E. 871
Weber, M.-
Erdélyi, A. 871
Parodi, M. 871
Berezanskiĭ, Yu. M. 884
Basone, N. 977
Picone, M. 978
Ossicini, A. 978
Brafman, F. 978
Mohr, E. 978
Brafman, F. 1083
Makar, R. H. 1083

Polynomial approximations and expansions. Cf. Approximation; functions of complex variables (polynomial expansions; complex interpolation).

Landauer, R. 44
Videnskiĭ, V. S. 154
Bernštein, S. N. 155
Cinquini, S. 162
Aruffo, G. 164
Šuvalova, Z. Z. 164
Dŭrbaĭyan, M. M. 164
Berman, D. L. 165
*Mergelyan, S. N. 165
Geronimus, Ya. L. 166
Russo, S. 166
Bojanić, R. 378
MacRobert, T. M. 466
Ikenberry, E.-
Rutledge, W. A. 466
Campbell, R. 467
Tandori, K. 467
Freud, G. 467, 468
Alexits, G. 468
Leemans, J. 641
Butzer, P. L. 641
Lyusternik, L. A. 747
Geronimus, Ya. L. 747
Dimić, P. 871
Geronimus, Ya. L. 871
Francesco-Saverio, R. 975
Petersen, R.-
Skovgaard, H. 976
Bernštein, S. N. 977
Turán, P. 1082
Ibragimov, I. I. 1083
Nikol'skiĭ, S. M. 1083
Sz.-Nagy, B. 1083
Alexits, G. 1083

POTENTIAL THEORY. Cf. Differential equations; harmonic functions.

General theory.

Royden, H. L. 45
Evans, G. C. 45
Neustadter, S. F. 46
Green, J. W. 46
Aržanyh, I. S. 46
Miranda, C. 46
Magnaradze, L. 152
Tsuji, M. 168
Weinstein, A. 177
*Nielsen, J. 215
Kuramochi, Z. 272
Garnir, H. G. 272
Savin, S. A. 272
Maruhn, K. 273
Synge, J. L. 273
Truesdell, C. 273
Maple, C. G. 274
Siegel, K. M. 374
Šilov, G. E. 374
Müller, C. 374
Holmberg, B. 374
Teissier du Cros, F. 375
Payne, L. E.-
Weinstein, A. 375
Egloff, W. 470
Kasner, E.-
De Cicco, J. 555
Jost, R.-Kohn, W. 556
Feller, W. 561
Sobolev, S. L. 565
Grünsch, H. J. 588
Ninomiya, N. 643
Tsuji, M. 644
Plûme, Z. 644
Kubo, T. 749
Weinstein, A. 749
Rubinowicz, A. 749
Fichera, G. 750
Bonsoncini, V. E. 750
Nitsche, Joachim-
Nitsche, Johannes. 791
Block, H. D. 980
Lüst, R.-
Schlüter, A.-
Treffts, E. 1085

Generalized potentials.

Ninomiya, N. 469
Sveinkov, A. G. 644

Capacity constants and related topics.

Bertolini, F. 470
Gross, W. 519
Polya, G. 634

Special potentials. Cf. Electricity (potentials); geodesy (higher geodesy); geophysics (potentials).

Minasyan, R. S. 46
Schubert, H. 556
Pavinskiĭ, P. P. 644
Graffi, D. 750
Miyatake, O.-
Watanabe, K. 750

POWER RESIDUES. See: number theory.

POWER SERIES. See: functions of complex variables; series (power series).

PRIME NUMBERS. See: number theory.

PROBABILITY THEORY. Cf. Actuarial mathematics; biological problems; statistical mechanics; statistics.

*Gnedenko, B. V.-
Hinčin, A. Ya. 293
*Boev, G. P. 566
*Gillis, P. P.-
von Mises, R.-
Ballieu, R.-
van Dantzig, D.-
Coutrez, R.-
Bouckaert, L.-
Prigogine, I.-
Campus, F.-
Fauville, A.-
Fréchet, M.-
Hirsch, G. 770

PROBABILITY THEORY. (Continued)

Foundations. Cf. Logic; philosophy.

*Carnap, R. 4
*Kneale, W. 59
Britzelmayr, W. 186
Basu, D. 186
Kawada, Y. 293
Hinčin, A. Ya. 293
Richter, H. 484
van der Waerden, B. L. 484
Vietoris, L. 484
Gröbner, W. 484
*Neyman, J. 664
*Tornier, E.-Domislaff, H. 886
*Braithwaite, R. B. 1097
Renyi, A. 1098

Elementary theory. Cf. Combinatorial analysis.

Katz, L. 59
Radek, H. 62
Domb, C. 186
Sibirani, F. 566
Greenwood, R. E. 770
Waugh, F. V. 770
Ladegast, K. 770
af Hällström, G. 770
Adam, A. 886
Isaacs, R. 992
Dufresne, P. 1098

Geometric probabilities.

Santaló, L. A. 59
Sukhatme, B. V. 59
Tricomi, F. G. 59
Gardner, A. 186
Garcia Alvarez, M. 294
Prékopa, A. 1098
Fraser, D. A. S. 1098

Distribution functions. Cf. Fourier integrals (Fourier-Stieltjes integrals); moments.

Hernandez, E. J. 59
Darling, D. A. 60
Linnik, Yu. V. 60
Gnedenko, B. V.-Mihalevič, V. S. 60
Benderskiĭ, A. M. 63
Sarmanov, O. V. 64
Lévy, P. 186
Prohorov, Yu. V. 186
Consael, R. 293
Nisida, T. 293
Varma, R. S. 293
Banerjee, D. P. 293
Ivanović, B. 293
Pompilj, G. 293
Morimura, H. 294
Tortrat, A. 294
Mihalevič, V. S. 297
Fraser, D. A. S. 297
Hammersley, J. M. 387
Linnik, Yu. V. 388
Morlat, G. 485
Putnam, C. R.-Wintner, A. 485
Levi, B. 485
Johnson, N. L. 485
Lukacs, E.-Szász, O. 485
de Castro, G. 566
Kanellos, S. G. 566
Marczewski, E. 567
Huron, R. 567
Mourier, E. 662
Fourgeaud, C. 662
Jensen, A. 664
Riordan, J. 664
Aczél, J. 770
Metropolis, N.-Ulam, S. 770
Duparc, H. J. A.-Lekkerkerker, C. G.-Peremans, W. 770
Blomqvist, N. 771
Chung, K. L. 771
Lenz, H. 771
Krishna Iyer, P. V. 771
Rényi, A. 771
Mittmann, O. M. J. 886
Onoyama, T. 886
Bochner, S. 886
Aoyama, H. 992
Smith, W. L. 993
Prékopa, A. 993
Milicer-Grużewska, H. 993
Rios, S. 993
Redheffer, R. M. 1098
Skitovič, V. P. 1098
Girault, M. 1098
Dynkin, E. B. 1098
Nimevič, L. B. 1099

Limit theorems.

Darling, D. A. 60
Rényi, A. 60
Hinčin, A. Ya. 60
Gnedenko, B. V. 61
Meixler, D. B.-Parasyuk, O. S.-Rvačeva, E. L. 61
Lévy, P. 61
Chung, Kai Lai-Pollard, H. 61
González Domínguez, A.-Scarfiello, R. 186
Meixler, D. G. 186
Prohorov, Yu. V. 187
Sverdrup, E. 187
Sirazdinov, S. H. 187
Kuniawa, K.-Maruyama, G. 294
Udagawa, M. 294
Maruyama, G. 294
Hammersley, J. M. 294
*Gayegyenko, B. V.-Kolmogorov, A. N. 294
Kawata, T. 294
Davis, R. C. 295
Dolph, C. L.-Woodbury, M. A. 295
Fortet, R.-Mourier, E. 387
Freudenthal, H. 387
Takács, L. 388
Robbins, H. 485
Lévy, P. 485
Lur'e, A. L. 567
Sakaguchi, M. 567
Lipschutz, M. 662
Rosenblatt, M. 665
Blomqvist, N. 771
Diananda, P. H. 771
Chung, K. L. 771
Izumi, S. 868
Sugiyama, H. 993
Fortet, R.-Mourier, E. 993
Mulholland, H. P. 993
Lévy, P. 994
Steinhaus, H. 994
Kolmogorov, A. N. 1099
Marusin, M. N. 1099
Gyires, B. 1099
Smith, W. L. 1099
Koopman, B. O. 1100
Takács, L. 1101

Markov chains and stochastic processes. Cf. Ergodic theory.

Gihman, I. I. 61
Grenander, U.-Rosenblatt, M. 61
Sirazdinov, S. H. 187
Itô, S. 187
Grenander, U. 187
Snell, J. L. 295
Kolmogorov, A. N. 295
Foster, F. G. 295
Daniels, H. E. 295
Klein, G. 295
Keilson, J.-Storer, J. E. 296
Ramakrishnan, Alladi. 296
Giesekus, H. 296
Karhunen, K. 387
Yosida, K. 387
Ramakrishnan, Alladi. 388
Jánossy, L. 388
King, G. W. 414
Dynkin, E. B.-Uspenskiĭ, V. A. 455
Yaglom, A. M. 485
Matschinski, M. 485
Uberoi, M. S.-Kovasznay, L. S. G. 486
Hollingsworth, C. A. 486
Dynkin, E. B. 567
Dobrušin, R. L. 567
Harris, T. E. 567
Kazami, A. 569
Karhunen, K. 663
*Mann, H. B. 663
Onoyama, T. 663
Lévy, P. 663
Taylor, S. J. 663
Foster, F. G. 663
Montroll, E. W. 663
Hermans, J. J.-Ullman, R. 664
Jensen, A. 664
Reuter, G. E. H.-Ledermann, W. 757
Hille, E. 758
Krishna Iyer, P. V. 771
Zadeh, L. A. 771
Bochner, S. 771
Karhunen, K. 772
Kinney, J. R. 772
Matschinski, M. 772
Kuniawa, K. 772
Grosjean, C. C. 772
Bochner, S. 886
Hodges, J. L., Jr.-Rosenblatt, M. 886
Bartlett, M. S. 887
Siegert, A. J. F. 887
Kern, E. R. 887
Kanô, S. 889
Chung, Kai Lai. 994
Blackwell, D. 994
Wasow, W. 994
King, G. W. 995
Kampé de Fériet, J. 995
Lévy, P. 1099
Chung, Kai Lai. 1099
Koopman, B. O. 1100
Ramakrishnan, Alladi. 1100
Florek, K.-Marczewski, E.-Ryll-Nardzewski, C. 1100
Marczewski, E. 1100
Saxén, T. 1100
Bailey, N. T. J. 1101
Rios, S. 1101
Itô, K. 1101
Foster, F. G.-Good, I. J. 1101
Takács, L. 1101
Bochner, S. 1101
Gihman, I. I. 1101

PROBABILITY THEORY. (Continued)

Random functions in analysis. Cf. Continued fractions (metric theory).

Kitagawa, T. 457
Hunt, G. A. 465
Rényi, A. 886
Mattila, S. 993
Steinhaus, H. 994
Ryll-Nardzewski, C. 994

Technical applications.

Radek, H. 62
Takács, L. 62
Hodge, P. G., Jr. 62
Bhabha, H. J.-Ramakrishnan, A. 62
Bhabha, H. J. 63
Bates, D. R. 119
Miller, G. A. 188
Kosten, L. 188
Pollaczek, F. 188
Jacot, H. 188
Arfwedson, G. 296
Gomm, G. 296
Ramakrishnan, Alladi. 388
Jánossy, L. 388
Takács, L. 388
Solodovnikov, V. V. 388
Uberoi, M. S.-Kovasznay, L. S. G. 486
Hollingsworth, C. A. 486
Vallée, R. 568
Itô, H. 568
Reich, E. 568
Fromageot, A. 568
Kullback, S. 568
Maignan, P.-Blanc, D.-Detoeuf, J.-F. 568
Pompili, E. 568
Tricomi, F. G. 570
Hermans, J.-J.-Ullman, R. 664
Riordan, J. 664
Kuniawa, K. 772
Grosjean, C. C. 772
Pollaczek, F. 772, 773
Messel, H. 773
Messel, H.-Potts, R. B. 774
Lefèvre, J. 774
Sverdrup, E. 774
Fortet, R. 799
Barrett, F. D.-Shepard, H. A. 887
Bunimovič, V. I. 995
Lehan, F. W. 995
Takács, L. 1101
McMillan, B. 1101
Tanner, J. C. 1102

PRODUCTS, INFINITE. See: series (infinite products).

PROJECTIVE DIFFERENTIAL GEOMETRY. See: differential geometry (conformal).

PROJECTIVE GEOMETRY. See: geometry (projective).

PROOFS, THEORY OF. See: logic (formal).

QUADRATURE FORMULAS. See: interpolation (mechanical quadratures); numerical methods (differentiation).

QUADRICS. See: geometry (analytic).

QUANTUM MECHANICS.

*Kraitchik, M. 620

General theory and relativistic quantum mechanics.

Fantappiè, L. 117
Falk, G.-Marschall, H. 117
Höhler, G. 117
Vigier, J.-P. 117
de Broglie, L. 117
Régnier, A.-Schatzman, E.-Vigier, J.-P. 117
Marx, G. 117
Proca, A. 118
Kita, H. 118
Halpern, O.-Hall, H. 118
Breit, G. 119
Goldberger, M. L. 119
Lifšic, I. M. 185
Bastin, E. W.-Kilmister, C. W. 227
Géhéniau, J. 227
Datta Majumdar, S. 227
Hanus, W. 227
Nambu, Y. 227
Fantappiè, L. 339
Mirianašvili, M. M. 339
Šapiro, I. S. 339
Gupta, Suraj N. 417
Pirani, F. A. E.-Schild, A.-Skinner, R. 418
Jordan, P. 434
Wigner, E. P. 435
Aleksandrov, A. D. 435
Bhabha, H. J. 435
Jehle, H. 435
Kilmister, C. W. 435
Serpe, J. 435
Gürsey, F. 435
Raje, S. A. 435
Havas, P. 435
Itô, H. 436
Wlassow, A. A. 437
Jánossy, L. 437
Berger, J. M.-Foldy, L. L.-Osborn, R. K. 437
Epstein, S. T. 519
Bohm, D. 520
Fényes, I. 520
de Broglie, L. 520
Morpurgo, G. 520
Costa de Beauregard, O. 606
Destouches-Aeschlimann, F. 606
Fogel, K.-G. 606
Kar, S. C. 607
Putnam, C. R. 659
Montroll, E. W. 663
Takabayasi, T. 705
Fabre de la Ripelle, M. 708
Haag, R. 825
de Broglie, L. 825
Serebryanyĭ, R. V. 825
Schönberg, M. 825
Barker, W. A.-Chraplyvy, Z. V. 825
Klimontovič, Yu. L. 826
Scheidegger, A. E. 826
Destouches-Aeschlimann, F. 829
Jordan, P. 841
v. Krbek. 1045
Falk, G. 1045
McShane, E. J. 1045
Synge, J. L. 1045
De Sloovere, H. 1045
Burton, W. K.-Touschek, B. F. 1045
Šapiro, I. S. 1047
Wilker, P.-Mercier, A. 1047
Husimi, K. 1047
Nakano, H. 1047

Quantum electrodynamics, field theory.

Ono, Y. 117
Hara, O.-Shimazu, H. 117
Van Hove, L. 117, 118
Pirenne, J. 118
Bonč-Bruevič, V. L.-Medvedev, B. V. 227
Dirac, P. A. M. 228
Cini, M. 228
Hoffmann, B. 228
Novožilov, Yu. V. 228
Corben, H. C. 228
Rayski, J. 228, 229
Rayski, J.-Rzewuski, J. 229
Rayski, J.-Średniawa, B. 229
DeWitt, B. S.-DeWitt, C. M. 230
Eder, G. 230
Thirring, W. E. 339
Matthews, P. T.-Salam, A. 339
Suura, H.-Mimura, Y.-Kimura, T. 339
Schönberg, M. 340
Schoch, A.-Steinwedel, H. 340
Polievktov-Nikoladze, N. M. 340
Kamefuchi, S.-Umezawa, H. 435
Källén, G. 435
de Broglie, L. 435
Vigier, J.-P. 436
Schrödinger, E. 436
Møller, C. 436
Bechert, K. 436
Tanikawa, Y. 436
Galanin, A. D. 436
Kwal, B. 437
Širokov, Yu. M. 437
Peierls, R. E. 520
Caianiello, E. R.-Fubini, S. 520
Corben, H. C. 520
Yennie, D. R. 520
*Baumann, K. 606
Rumer, Yu. B. 606

QUANTUM MECHANICS. (Continued)

Quantum electrodynamics, field theory. (Continued)

Bergmann, P. G.-Schiller, R. 606
Hurst, C. A. 607
Cini, M. 607
Kothari, L. S. 607
Hamilton, J. 607
Yappa, Yu. A. 608
Shôno, N.-Oda, N. 608
Loinger, A. 608
Ludwig, G. 608
Fubini, S. 705
Miyatake, O. 705
Rayski, J. 705
Rumer, Yu. B. 706
Salam, A. 706
Lévy, M. M. 706
Salpeter, E. E.-Bethe, H. A. 707
Hamilton, J. 707
Galanin, A. D. 707
Günther, M. 707
Arnous, E.-Bleuler, K. 708
Arnous, E. 708
Hori, Shoichi. 708
Thirring, W. 708
Rzewuski, J. 708, 709
Takahashi, Y.-Umezawa, H. 709
Umezawa, H. 709
Lüders, G. 709
König, H. W. 709
Groschwitz, E. 709
Haag, R. 710
Scheidegger, A. E.-McKay, C. D. 710
Cook, J. M. 825
Motz, L. 825
Sato, I. 826
Nishijima, K. 826
Brown, G. E. 826
Gupta, Suraj N. 826
Ivanenko, D.-Kurdgelaidze, D.-Larin, S. 827
Kilmister, C. W. 827
Friedrichs, K. O. 827
Baumann, K. 827
van Kampen, N. G. 828
Coester, F. 828
Coester, F.-Jauch, J. M. 828
Ekstein, H. 828
Shimose, T. 828
Kümmel, H. 829
*Sokolov, A.-Ivanenko, D. 1044
Ascoli, R. 1045
Melvin, M. A. 1045
Muto, T.-Inoue, K. 1045
Loinger, A. 1046
Green, H. S. 1046
Umezawa, H.-Kawabe, R. 1046
Wataghin, G. 1046
Bopp, F. 1046
Williamson, E. M. 1046
Novobatzky, K. F. 1046
Costa de Beauregard, O. 1046
Svenonius, P.-Waller, I. 1046
Petiau, G. 1047
Olsen, H.-Werenskiold, P.-Wergeland, H. 1047

Elementary particles, nuclear physics. Cf. Geophysics (cosmic rays).

Urban, P.-Schwarzl, P. 118
Osborn, R. K. 118
Shanmugadhasan, S. 118
Majumdar, R. C.-Apte, A. S.-Sundaresan, M. K. 119
Yamazaki, K.-Enatsu, H. 119
Borowitz, S.-Kohn, W. 119
Fues, E.-Statz, H. 119
Géhéniau, J. 227
Liesse, C. 227
Matthews, P. T.-Salam, A. 339
Polievktov-Nikoladze, N. M. 340
Winogradski, J. 340
Ter-Martirosyan, K. A. 340
Gilio, A. 436
Heisenberg, W. 436
Jeffreys, B. 436
Fubini, S. 436
Cap, F. 437
Nelipa, N. F. 437
Širokov, Yu. M. 437
Brulin, O.-Hjalmars, S. 437
Rosen, N. 437
Corinaldesi, E.-Trainor, L. 455
Yappa, Yu. A. 608
Buneman, O. 608
Sakata, S.-Umezawa, H.-Kamefuchi, S. 608
Wessel, W. 709
Tokuoka, Z.-Tanaka, H. 709
Shanmugadhasan, S. 710
Kynch, G. J. 710
Moses, H. E. 756
Wick, G. C.-Wightman, A. S.-Wigner, E. P. 827
Caldirola, P.-Gulmanelli, P. 827
Gupta, K. K. 827
Caldirola, P. 827
Moshinsky, M. 828
Moses, H. E. 828
Ivanenko, D.-Kolesnikov, N. 828
Kümmel, H. 829
Watson, K. M. 829
Ginsburg, V. L.-Tamm, I. E. 829
el-Nadi, M. 829
Petiau, G. 1047
Flügge, S.-Woeste, K. 1047
Woeste, K. 1047

Molecular theories.

Bates, D. R. 119

Solids. Cf. Potential theory (lattice potentials).

Gerstenkorn, H. 113
Koster, G. F. 748

QUASI-ANALYTIC FUNCTIONS. See: functions of complex variables (quasi-analytic functions).

QUASI-GROUPS. See: groups (generalized groups).

QUATERNIONS. See: algebra: abstract; algebra: linear (special algebras); functions of complex variables (functions of quaternion variables); vector calculus.

RANDOM FUNCTIONS. See: probability; statistics.

REAL FUNCTIONS. See: functions of real variables.

RECREATIONAL MATHEMATICS.

Coxeter, H. S. M. 136

REGULAR FIGURES. See: geometry (regular figures).

REGULATION, THEORY OF. See: servomechanisms.

RELATIVITY. Cf. Astronomy (cosmology); quantum mechanics (general theory).

Einstein, A. 97
Infeld, L. 97
Castoldi, L. 97
Ikeda, M. 97
Haywood, J. H. 97
Gel'man, E. E. 97
Maravall Casesnoves, D. 98
Frankl', F. I. 98
Riesz, M. 98
*v. Laue, M. 98
Macke, W. 98
Pignedoli, A. 98
Galli, M. 98
Synge, J. L. 99
Zagar, F. 99
*Møller, C. 212
*Ludwig, G. 213
Hlavatý, V. 213
Tonnelat, M.-A. 213
Weyssenhoff, J.-Raabe, A. 213
Weyssenhoff, J. 214
Średniawa, B. 214
Majorana, Q. 214
Hély, J. 214
Synge, J. L. 214
Galli, M. 214
Bergmann, P. G. 231
Hogarth, J. E.-McCrea, W. H. 416
Hély, J. 416
De Sloovere, H. 416
de Donder, T. 416
Hlavatý, V. 416
Ingraham, R. L. 416
Kohler, M. 416
Mikhail, F. I. 417
Scherrer, W. 417
Galli, M. 417
Takeno, H. 417
Gupta, Suraj N. 417
Pirani, F. A. E.-Schild, A.-Skinner, R. 418
Vigier, J.-P. 418
Graef Fernández, C. 418
Alba Andrade, F. 418
Maravall Casesnoves, D. 418
Abelé, J. 504
Malvaux, P. 504
Hlavatý, V. 505
Cap, F. 505
Ikeda, M. 505
Jordan, P. 505
Jánossy, L. 506
Risco, M. 506
Ueno, Y.-Takeno, H. 506
Rickayzen, G.-Kurşunoğlu, B. 591
Pastori, M. 591
Thiry, Y. 591
Johnson, C. P., Jr. 591
Einstein, A. 591
Jaiswal, J. P. 592
Raychaudhuri, Amal Kumar. 592
Gilbert, C. 592
Littlewood, D. E. 592
Jordan, P. 603
Ikeda, M. 603
Fourès-Bruhat, Y. 756
*Einstein, A. 805
Kurşunoğlu, B. 805
Narlikar, V. V. 805
Goldberg, J. N. 805
Bergmann, O. 806
Takasu, T. 806
von Krbek, F. 806
Vaidya, P. C. 806
Taylor, N. W. 806
Infeld, L. 806
Ingraham, R. L. 806
Majumdar, Nandagopal. 806
Bandyopadhyay, G. 806
Roy, L. 806
Papapétrou, A. 806, 807
Lalan, V. 807
Garnier, R. 807
Ingleton, A. W. 807
Clauser, E. 807
Graef Fernandez, C. 807
Hoffmann, B. 821
Jánossy, L. 913
Ives, H. E. 913
Kohler, M. 913
O'Brien, S.-Synge, J. L. 913
Horváth, J. I.-Moór, A. 914
Narlikar, V. V.-Singh, K. P. 914
Raychaudhuri, Amalkumar. 914
Vaidya, P. C. 914
Gürsey, F. 915
Jordan, P. 915
Bose, S. N. 915
Bergmann, P. G.-Thomson, R. 915
Baccarani, V.-Rubbiani, F. 915
Pignedoli, A. 915
Schlomka, T. 915
Taylor, N. W. 915
Gething, P. J. D. 916
Petrov, A. Z. 1016
*Jordan, P. 1022
Matte, A. 1022
Kaempffer, F. A. 1023
Maravall Casesnoves, D. 1023
Sailer, H. 1023
von Krbek. 1023
Ueno, Y. 1023
Garcia, G. 1023
Falk, G. 1045
Eisenhart, L. P. 1123
Hlavatý, V.-Sáenz, A. W. 1132
Hlavatý, V. 1132
Pastori, M. 1133
Lamsen, K. W. 1133
Lichnerowicz, A. 1133
Bonnor, W. B. 1133
Buchdahl, H. A. 1133
Nariai, H. 1133
Kustaanheimo, P.-Qvist, B. 1133
Popovici, A. 1133
Lampariello, G. 1134
McCrea, W. H. 1134
Witrow, G. J. 1134
Stephenson, G.-Kilmister, C. W. 1134
Stephenson, G. 1134
Moore, M. G. 1134
Iwata, G. 1134
Pham, Man Quan. 1134, 1135
Synge, J. L. 1135
Graef Fernández, C. 1135

REPRESENTATION THEORY. See: algebra: abstract; algebra: linear; groups.

RICCI CALCULUS. See: differential geometry; vector calculus (tensors).

RIEMANN SURFACES. See: functions of complex variables (Riemann surfaces); topology (covering surfaces).

RIEMANNIAN GEOMETRY. See: differential geometry.

RINGS. See: algebra: abstract (commutative rings; noncommutative rings); functional analysis (Hilbert spaces; normed rings); partially ordered sets (Boolean algebras).

ROTATING FLUID BODIES. See: astronomy (figures of equilibrium).

SAMPLING THEORY. See: statistics (theory of estimation, testing of hypotheses).

SCHLICHT FUNCTIONS. See: functions of complex variables.

SCHWARZ LEMMA. See: functions of complex variables.

SEISMOLOGY. See: geophysics (seismology).

SELF-RECIPROCAL FUNCTIONS. See: integral transforms (self-reciprocal functions).

SEMI-GROUPS. See: groups (generalized groups); functional analysis.

SEQUENTIAL ANALYSIS. See: statistics (sequential analysis).

SERIES. Cf. Almost periodic functions; approximation; continued fractions; differences; Dirichlet series; Fourier series; functions of complex variables (polynomial expansions); interpolation; numerical methods (computation of series); polynomials (polynomial approximations); probability theory (random functions in analysis); Tauberian theorems.

Kruskal, J. B., Jr. 744

Special sequences and series. Cf. Number theory (number-theoretical functions); special functions (functions defined by special expansions).

Toscano, L. 21
Scherrer, W. 160
Banditch, I. M. 160
Koschmieder, L. 160
Ore, O. 256
Zonneveld, J. A.-Berghuis, J. 266
Paterson, S. 369
Emersleben, O. 369
Errera, A. 442
Mišoń, K. 478
Fain, B. W. 633
Rodeja F., E. G.-. 745
Spiegel, M. R. 745
Rankin, R. A. 852
Forster, H. 973
Carlitz, L. 973
Janković, Z. 974
Bajraktarević, M. 1068
Gnanadoss, A. A. 1079

Infinite products.

Kalaĭnikov, M. D. 1079

Power and factorial series. Cf. Functions of complex variables (power series).

Mikusiński, J. G.-. 39
Leja, F. 40
Karamata, J. 265
Gaier, D. 369
James, R. C. 369
Evgrafov, M. A. 552

Operations on series.

Whittaker, E. T. 40

Convergence and summability.

Chow, Hung Ching. 39
Garreau, G. A. 39
Agnew, R. P. 39
Krishnamoorthy, A. S. 158
Obrechkoff, N. 158
Gandini, C. 158
Zeller, K. 158
Jurkat, W.-Peyerimhoff, A. 158
Love, E. R. 159
Pennington, W. B. 159
Chadaya, T. G. 159
Celidze, V. G. 159
Marmaraĭvili, G. A. 159
Magnaradze, L. 159
Mazur, S. 159
Lorentz, G. G. 160
Sargent, W. L. C. 160
Agnew, R. P. 160
Knopp, K. 160
Marmaraĭvili, G. A. 163
Zmorović, V. A. 265
Žitomirskiĭ, Ya. I. 265
Maschler, M. 265
Peyerimhoff, A. 265
Karamata, J. 265
Erdös, P. 265
Rajagopal, C. T. 265
Wielandt, H. 265
Meyer-König, W. 265
Cowling, V. F.-Piranian, G. 266
Hyslop, J. M. 368
Petersen, G. M. 368
Agnew, R. P. 368
Wilansky, A. 369
Tolba, S. E. 369
Gaier, D. 369
Boyd, A. V.-Hyslop, J. M. 463
Agnew, R. P. 463, 464, 551
Martin, C. F. 551
Peyerimhoff, A. 551
Sunouchi, G.-Tsuchikura, T. 551
Evans, A. 551
Norris, M. J. 552
Rajagopal, C. T. 633
Basu, S. K. 634
Chadaia, T. 634
Knopp, K. 634
Vermes, P. 634
Lorentz, G. G.-Macphail, M. S. 634
Macphail, M. S. 634
Zeller, K. 744
Jackson, F. H. 744
Vermes, P. 745
Maschler, M. 745
Zamansky, M. 865
Meyer-König, W. 865
Peyerimhoff, A. 865
Jurkat, W. 866
Zeller, K. 866
Kadec, M. I. 866
Izumi, S. 868
Rajagopal, C. T. 958
Meyer, B. 973
Hitotumatu, S. 973
Srivastava, R. S. L. 973
Rajagopal, C. T. 973
de Bruijn, N. G.-Erdös, P. 973
Fernandes Costa, M. A. 973
*Chandrasekharan, K.-Minakshisundaram, S. 1077
Clunie, J. 1078
Šégelov, M. P. 1078
Hill, J. D. 1078
Livingston, A. E. 1078
Gaier, D.-Peyerimhoff, A. 1078
Zamansky, M. 1079
Bendukidze, A. D. 1079
Žak, I. E. 1079
Kalaĭnikov, M. D. 1079

Asymptotic series and summation formulas.

Thorkelsson, T. 40
Hsu, L. C. 255
Zonneveld, J. A.-Berghuis, J. 266
Karamata, J. 372
Vernotte. P. 464
Lubkin, S. 500
San Juan, R. 543
Zamansky, M. 865
van Wijngaarden, A. 872
Hsu, L. C. 965
San Juan, R. 1077

Multiple series.

Kadec, M. I. 866
Kochmański, T. 866
García Pradillo, J. 974

SERVOMECHANISMS, THEORY OF REGULATION. Cf. Difference equations; differential equations; electricity (networks); methods (instruments); probability.

Malkin, I. G. 48
Bückner, H. 145
Malkin, I. G. 170
Raymond, F.-H. 171
Simon, H. A. 302
Kac, A. M. 372
Erugin, N. P. 376
*Solodovnikov, V. V. 388
Mersman, W. A. 455
Alekseev, A. S. 504
Sundström, M. 570
Dolgolenko, Yu. V. 648
Bückner, H. 648
Alzerman, M. A. 648
Bautin, N. N. 648
Erŝov, B. A. 752
Troickiĭ, V. A. 753

SETS, THEORY OF. Cf. Functional analysis; functions of real variables; measure and integration; topology.

*Kuratowski, K.-Mostowski, A. 960

SETS, THEORY OF. (Continued)

Axiomatics. Cf. Logic.

Novikov, P. S. 234
Schröter, K. 234
Lorenzen, P. 714
Gokieli, L. P. 715
Popadić, M. S. 733
Shepherdson, J. C. 834
Skolem, T. 937

Abstract theory. Cf. Partially ordered sets.

Sierpiński, W. 25, 26
Ellis, J. W. 146
Ribeiro de Albuquerque, J. 146, 147
Kurepa, G. 255
Schmidt, J. 255
Rohrbach, H.-Volkmann, B. 255
Gottschalk, W. H. 361
Vaughan, H. E. 362
Jones, F. B. 544
Rothberger, F. 544
*Sierpiński, W. 627
Norris, M. J. 733
Lyapunov, A. A. 1069
Volkmann, B. 1070
Surányi, J. 1070

Point sets. Cf. Differential geometry (set-theoretical methods); potential theory (capacity constants).

Kurepa, D. 255
Kolmogorov, A. N. 255
Nakahara, I. 455
Kozlova, Z. I. 456
Bertolini, F. 456
Green, J. W. 544
Behrend, F. A. 544
Ginsburg, S. 853
Edelstein, M. 854
Strazewicz, S. 854
Stanojević, C. V. 854
Germansky, B. 854
Watanabe, H. 960
Sierpiński, W. 960
Mrówka, S. 960
Neves Real, L. 960

Covering theorems.

Bledsoe, W. W.-Morse, A. P. 362

Measurability problems.

Sierpiński, W. 456
Kondo, M.-Tugue, T. 733
Davies, R. O. 733
Kinokuniya, Y. 735
Kurepa, Đ. 960
Hartman, S. 960
Debrunner, H. 1115

Transfinite numbers and problem of continuum.

Sierpiński, W. 26
Kuratowski, C. 26
Sikorski, R. 26
Hartman, S., rédacteur 26
Denjoy, A. 26
Vol'pert, A. Ya. 27
Sierpiński, W. 146
Novák, J. 146
Mišík, L. 146
Novotný, M. 146
Kurepa, G. 146
Eyraud, H. 146
Obreanu, F. 146
Eyraud, H. 255
Denjoy, A. 255
Davis, A. C.-Sierpiński, W. 361
Davis, A. C. 361
Gillman, L. 543
Sierpiński, W. 544
Sierpiński, W. 544
Rothberger, F. 544
Gustin, W. 627
Takeuti, G. 714
Norris, M. J. 733
Bloch, G. 733
Zakon, E. 733
Fodor, G. 853
Ketskeméty, I. 853
Aronszajn, N. 854
Sierpiński, W. 1068, 1069
Denjoy, A. 1069
Ginsburg, S. 1069
Grossmann, A. 1069

SHELLS. See: elasticity (shells).

SOLIDS. See: potential theory (lattice potentials); quantum mechanics (solids); statistical mechanics (crystal statistics).

SPECIAL FUNCTIONS. Cf. Elliptic functions; polynomials (special); tables (special functions).

*Lavrent'ev, M. A.-Šabat, B. V. 457
*Ryžik, I. M.-Gradšteĭn, I. S. 643
Rosenfel'd, B. A.-Skopec, Z. A. 679
*Lense, J. 979

Integral-logarithm and analogous functions.

Blanuša, D. 269
Vadnal, A. 871
Kreyszig, E. 871
Silverman, L. L. 871

Gamma function and generalizations.

Tricomi, F. G. 59
Guinand, A. P. 468
*Sibagaki, W. 748
Jaffé, H. H. 872
Clemmow, P. C.-Senior, T. B. A. 1083
Budden, K. G. 1083
Agarwal, Ratan Prakash. 1084

Functions defined by special expansions.

Nassif, M. 32
van de Vooren, A. I. 103
Laitone, E. V. 103
Jones, W. P. 103
MacDonald, W. M., III.-Richardson, J. M.-Rosenberry, L. P. 373
Tricomi, F. G. 632
Gonzalez Domingues, A. 642
Kopineck, H.-J. 643
Brennan, R. O.-Mulligan, J. F. 643
Murai, T.-Araki, G. 643
Knudsen, H. L. 643
Lewin, L. 643
van Wijngaarden, A. 872
Humbert, P. 872
Corrington, M. S. 872
Hylleraas, E. 872
Colombo, S. 873
Sarginson, K. 876
Keller, G.-Fenwick, M. 905
Tables of complete downwash due to a rectangular vortex. 905
Mayet, M. 906
Vroelant, C. 979

Bessel and cylinder functions.

Thiruvenkatachar, V. R.-Nanjundiah, T. S. 44
Olver, F. W. J. 45
Reissner, E. 271
Tables of Bessel functions $Y_0(x)$, $Y_1(x)$, $K_0(x)$, $K_1(x)$, $0 \leq x \leq 1$. 321
Connolly, B. W. 373
Markovitz, H. 373
Agostinelli, C. 373
*Bickley, W. G.-Comrie, L. J.-Miller, J. C. P.-Sadler, D. H.-Thompson, A. J. 410

SPECIAL FUNCTIONS. (Continued)

Bessel and cylinder functions. (Continued)

Ragab, F. M. 468
Jones, C. W. 500
Giulianо, L. 642
Charnes, A. 642
Humbert, P. 747
Grosswald, E. 747
Brafman, F. 872
Dörr, J. 872
Vacca, M. T. 872
Makai, E. 872
Rainville, E. D. 872
Henrici, P. 872
van Wijngaarden, A. 872
Tables of Bessel-Clifford functions of orders zero and one. 905
Struve function of order three-halves. 905
Blanuša, D. 979
Friedman, B.-Russek, J. 1084
Chandrasekhar, S.-Elbert, D. 1126

Legendre functions, spherical harmonics, Lamé functions and related topics.

Landauer, R. 44
Bragard, L. 271
Lambe, C. G. 271
Karamata, J. 372
Aljančić, S. 373
Hohlov, R. V. 373
Takahashi, T. 373
Ossicini, A. 468
MacRobert, T. M. 468
Cooke, J. C. 642
Villari, G. 642
Grosswald, E. 642
Carlitz, L. 642
Sarginson, K. 876
Sengupta, H. M. 1084

Hypergeometric functions.

Kuhn, T. S. 45
Toscano, L. 269
Tricomi, F. G. 269, 270
Erdélyi, A. 270
Sears, D. B. 271
Slater, L. J. 271
Höfinger, E. 372
Toscano, L. 372
Halphen, E. 372
Slater, L. J. 372
Conolly, B. W. 373
Palamà, G. 468
Martin, D. 469
MacRobert, T. M. 469
Nørlund, N. E. 469
Meijer, C. S. 469
Chang, Chieh-Chien-Chu, Boa-Teh-O'Brien, V. 469
Bagchi, Hari das-Chatterji, Phatik chand. 641
Sevdić, M. 643
Matsumoto, T. 748
Koster, G. F. 748
Carpani, A. 642
Bose, N. N. 642
Biedenharn, L. C. 642
Carlitz, L. 642
Meijer, C. S. 642
Popov, B. S. 648
Buchholz, H. 748
Meijer, C. S. 748
Cherry, T. M. 905
*Buchholz, H. 978
Meijer, C. S. 979

Functions defined by differential and functional equations.

Cf. Differences (generalized difference equations); functional equations.

González, M. O. 271
Sipa, R. 271
Agostinelli, C. 373
Bagchi, Hari das-Chatterji, Phatik chand. 641
Sevdić, M. 643
Matsumoto, T. 748
Koster, G. F. 748
Rainville, E. D. 758
Bagchi, Hari das-Mukherji, Bisan nath. 1084
Borkmann, K. 1084
Magnus, W. 1087

SPECTRAL THEORY. See: functional analysis (Hilbert space; existence theorems).

SPHERES AND CIRCLES, GEOMETRY OF. See: differential geometry (Laguerre geometry); geometry (lines).

SPHERICAL HARMONICS. See: special functions (Legendre functions).

SPHERICAL TRIGONOMETRY. See: trigonometry.

SPINORS. See: quantum mechanics; vector calculus.

STABILITY OF SOLUTIONS OF DIFFERENTIAL EQUATIONS. See: differential equations (ordinary).

STATICS. See: mechanics (statics).

STATISTICAL MECHANICS. Cf. Diffusion; ergodic theory; hydrodynamics (turbulence); thermodynamics.

Klein, M. J. 230
Bergmann, P. G. 231
Truesdell, C. 231
Kubo, R. 438
Grad, H. 520, 521
Ikenberry, E. 521
Cox, R. T. 522
Okayama, T. 522
Koppe, H. 710
Schönberg, M. 710
Nishiyama, T. 710
Kubo, R. 711
Schmidt, H. 829
Klein, G.-Prigogine, I.² 829
Green, M. S. 1048
Hashitsume, N. 1048
Bazarov, I. P. 1048
Nishiyama, T. 1048

Theory of gases.

Hinčin, A. Ya. 60
Bogoliuboff, N. 230
Bogolyubov, M. M. 230
Broer, L. J. F. 231
Verschaffelt, J. E. 231
Nijboer, B. R. A.-van Hove, L. 231
Dutta, M. 231
Kihara, T. 231
Linnik, Yu. V. 388
Egerváry, J.-Turán, P. 438
Cotter, J. R. 521
Bernard, J.-J. 521
Marquet, S. 521
Grad, H. 522
Kilpatrick, J. E. 710
Reiss, H. 711
Yang, C. N.-Lee, T. D. 711
Lee, T. D.-Yang, C. N. 711
Lee, T. D.-Lax, M. 711
Uhlenbeck, G. E. 836
Green, H. S. 1048
Bernard, J.-J.-Siestrunck, R. 1048

Theory of liquids.

Nakamura, T. 438
Reiss, H. 711
Yang, C. N.-Lee, T. D. 711
Rushbrooke, G. S.-Scoins, H. I. 711
McLellan, A. G. 829

STATISTICAL MECHANICS. (Continued)

Crystal statistics.

Wang, Ming Chen.-Guth, E. 224
Berlin, T. H.-Kac, M. 232
Born, M. 232
Nabarro, F. R. N.-Varley, J. H. O. 232
Martin, B.-ter Haar, D. 522
Yang, C. N. 522
Lee, T. D.-Yang, C. N. 711
Temperley, H. N. V. 713
Berlin, T. H.-Thomsen, J. S. 713
Lax, M. 713
Hoffman, T. A. 830

STATISTICS. Cf. Economics; probability; tables (statistical tables).

*Hald, A. 188
*Tippett, L. H. C. 296
*Rao, C. Radhakrishna. 388
*Ríos, S. 568

Frequency functions, moments. graduation. Cf. Errors.

Toranzos, F. I. 189
Banerjee, D. P. 189
Wishart, J. 296
Krishna Iyer, P. V. 297
Béjar, J. 389
Lomnicki, Z. A. 389
Kupperman, M. 389
Barton, D. E.-Dennis, K. E. 389
David, H. A. 486
Kaplan, E. L. 486
Gini, C. 486
Fortunati, P. 568
Nabeya, S. 569
Schoenberg, I. J.-Whitney, A. 732
Liu, Nanming. 888
Chandra Sekar, C.-Chakraborty, P. N. 995
Williams, E. J.-Kloot, N. H. 1104
Fisher, R. A. 1104

Correlation and regression theory.

Kendall, M. G. 66
Fréchet, M. 189
K. N. M. 190
Tintner, G. 297
Wold, H. 297
Bates, G. E.-Neyman, J. 389
*Quenouille, M. H. 568
Lyerly, S. B. 663
Geary, R. C. 776
Wolfowitz, J. 776
Kruskal, W. H. 890
Davidoff, M. D.-Goheen, H. W. 995
Kimball, B. F. 1137

Decision functions.

Špaček, A. 63
Miyasawa, K. 63
Lehmann, E. L. 298
Peterson, R. P. 298
Hodges, J. L., Jr.-Lehmann, E. L. 299
Paulson, E. 299
Matsuita, K. 488
Paulson, E. 569
Matsuita, K.-Akaike, H. 570
Smith, N. M., Jr.-Walters, S. S.-Brooks, F. C.-Blackwell, D. H. 778
Vajda, S. 778
Young, G. S., Jr. 889
Kitagawa, T. 997
Bahadur, Raghu Raj.-Goodman, L. A. 997
Sverdrup, E. 997
Dvoretzky, A.-Kiefer, J.-Wolfowitz, J. 997
Wolfowitz, J. 998
Elfving, G. 998
Kiefer, J. 998
Ghosh, M. N. 1104

Theory of estimation, testing of hypotheses.

Terpstra, T. J. 64
Dalenius, T.-Gurney, M. 64
Lloyd, E. H. 64
Guest, P. G. 64
Sandelius, M. 65
Lloyd, E. H. 65
Halperin, M. 65
Barnard, G. A. 65
Jordan, K. 65
Bartlett, M. S. 66
Rosenblatt, M. 189
Murakami, M. 190
K. N. M. 190
Cochran, W. G. 190
Terry, M. E. 190
Barankin, E. W. 190
Okamoto, M. 190
Roy, S. N. 190
Mourier, E. 191
Dalenius, T. 191
King, E. P. 297
Fraser, D. A. S. 297
Lehmann, E. L. 298
Godambe, V. P. 298
Peterson, R. P. 298
Lal, D. N. 298
Darling, D. A. 298
Walsh, J. E. 298
Anderson, T. W.-Darling, D. A. 298
Walker, A. M. 299
Wolfowitz, J. 299
Kiefer, J.-Wolfowitz, J. 299
Williams, E. J. 299
Sukhatme, P. V.-Seth, G. R. 390
Sukhatme, P. V.-Narain, R. D. 390
Midzuno, H. 390
Ogawa, J. 390
Goodman, L. A. 390
Kitagawa, T. 390
Schmetterer, L. 391
Woodruff, R. S. 391
Terpstra, T. J. 391
Moore, P. G. 391
Rijkoort, P. J. 391
Kruskal, W. H. 391
Massey, F. J., Jr. 391
Matthai, A.-Kannan, M. B. 391
Rao, S. Raja.-Som, Ranjan K. 391
Rao, C. Radhakrishna. 391
Isida, M. D. 487
Chanda, K. 487
Aoyama, H. 487
Masuyama, M. 487
Grundy, P. M. 487
Gupta, A. K. 487
Cox, D. R. 487
Kiefer, J. 487
Anscombe, F. J. 487
Whittle, P. 488
Petrov, A. A. 488
Sandelius, M. 488
Chapman, D. G. 488
Drion, E. F. 488
David, F. N.-Johnson, N. L. 488
Scheffé, H. 488
Walsh, J. E. 488
Das Raj. 569
Pillai, K. C. S. 569
Kazami, A. 569
Paulson, E. 569
*Neyman, J. 664
Masuyama, M. 665
David, F. N.-Johnson, N. L. 665
Sandelius, M. 665
Rushton, S. 665
Rosenblatt, M. 665
Bennett, B. M. 665
Lyerly, S. B. 665
Miyasawa, K. 666
Basu, D. 666
Lehmann, E. L. 666
Bartlett, M. S. 666
van der Waerden, B. L. 666
Birnbaum, Z. W. 666
Okamoto, M. 666
Whittle, P. 666
Craig, C. C. 776
Ammeter, H. 776
Geary, R. C. 776
Wolfowitz, J. 776
Takashima, H. 776
Jensen, A. 777
Chakravarti, I. M. 777
Tweedie, M. C. K. 777
Horvitz, D. G.-Thompson, D. J. 777
Singh, Baikunth Nath. 777
Goodman, L. A. 777
Hoeffding, W. 887
Goffman, C. 888
Goodman, L. A. 888
Bahadur, R. R. 888
Izaki, M. 888
Uranisi, H. 888
Terpstra, T. J. 888
Lehmann, E. L. 888
Fraser, D. A. S. 889
Allen, S. G., Jr. 889
Weiss, L. 889
Schäfer, W. 889
Kanô, S. 889
Matschinski, M. 889
Mohnsame, M. 889
Sampford, M. R. 889
Maritz, J. S. 996
Basu, D. 996
Yamamoto, S. 996
Taylor, W. F. 996
Kudô, H. 996
Sakaguchi, M. 996
Kitagawa, T. 997
Dvoretzky, A.-Kiefer, J.-Wolfowitz, J. 997
Wolfowitz, J. 998
LeCam, L. 998
Schmetterer, L. 1102
Fraser, D. A. S.-Guttman, I. 1102
Kôno, K. 1102
Cohen, A. C., Jr. 1103
Das Raj. 1103
Das, A. C. 1103
Rao, C. Radhakrishna. 1103
van der Waerden, B. L. 1105
Basu, D. 1105

STATISTICS. (Continued)

Theory of estimation, testing of hypotheses. (Continued)

Kiefer, J. 1103
Schmetterer, L. 1103
Moore, P. G. 1104
Rao, K. S. 1104
Brownlee, K. A.-
Hodges, J. L., Jr.-
Rosenblatt, M. 1104
Lindley, D. V. 1104
Rijkoort, P. J.-
Wise, M. E. 1104
Latscha, R. 1104
Henderson, C. R. 1105

Sequential analysis.

Barnard, G. A. 65
Cox, D. R. 190
Wünsche, G. 191
Robbins, H. 300
Kiefer, J. 487
Anscombe, F. J. 487
Walker, A. M. 569
Goodman, L. A. 776
Hoeffding, W. 777
Chapman, D. G. 777
Rushton, S. 996
Hamaker, H. C. 996
Kiefer, J. 1103
Moore, P. G. 1104

Special distributions.

Pompilj, G. 63
Hartley, H. O.-
Fitch, E. R. 63
Uranisi, H. 63
Massey, F. J., Jr. 63
Benderskiĭ, A. M. 63
Sarmanov, O. V. 64
Olds, E. G. 64
Terpstra, T. J. 64
Dalenius, T.-
Gurney, M. 64
Sillitto, G. P. 64
Homma, T. 64
Ehrenberg, A. S. C. 64
Sato, R. 189
Fréchet, M. 189
Shah, A. B. 189
Toranzos, F. I. 189
Banerjee, D. P. 189
Goodman, L. A. 189
Vora, Shanti A. 189
Chapman, D. G. 189
Rosenblatt, M. 189
Kôno, K. 190
Murakami, M. 190
Krishna Iyer, P. V. 297
Lukacs, E. 297
Mihalevič, V. S. 297
Lomnicki, Z. A. 389
Ogawa, J. 389
Mulholland, H. P. 389
Kendall, M. G. 389
Murty, V. N. 389
Bates, G. E.-
Neyman, J. 389, 390
Quensel, C.-E. 486
Simpson, E. H. 486
Lancaster, H. O. 486
Bruno, A. 486
Masuyama, M. 486
Hyrenius, H. 487
Sandelius, M. 488
Skory, J. 568
Homma, T. 569
Draper, J. 569
Nabeya, S. 569
Gumbel, E. J.-
Greenwood, J. A.-
Durand, D. 664
Sagrista, S. N. 665
Masuyama, M. 667
Taguti, G. 775
Fraser, D. A. S. 775
van IJseren, J. 775
Krooth, R. S. 775
Alfred, F. M.- 775
Des Raj. 775
Watanabe, Y. 775
Masuyama, M. 775
Albert, G. E.-
Nelson, L. 775
Neyman, J.-
Scott, E. L. 803
Smith, E. S. 887
Hoeffding, W. 887
Springer, M. D. 887
Kruskal, W. H. 890
Sampford, M. R. 995
Tate, R. F. 995
Gayen, A. K. 995
Lieblein, J. 995
Tiago de Oliveira, J. 995
Madow, W. G. 996
Tanner, J. C. 1102
Bhate, D. H. 1102
Sinha, P. 1102
Bliss, C. I. 1102
Dumas, M. 1102
Anis, A. A.-
Lloyd, E. H. 1102
Dwass, M. 1102

Analysis of variance and design of experiments.

Harshbarger, B.-
Davis, L. L. 5
Bartlett, M. S. 66
*Finney, D. J. 66
Clarke, P. M. 67
Bose, R. C.-
Shimamoto, T. 67
Banerjee, K. S. 67
Patterson, H. D. 67
Bose, R. C.-
Connor, W. S. 124
Bush, K. A. 125
Ogawa, J. 191
Nair, K. R. 191
Shrikhande, S. S. 235
Norton, D. A. 235
Williams, E. J. 300
Robbins, H. 300
Pearce, S. C. 300
Patterson, H. D. 392
Yamamoto, K. 442
Bose, R. C.-
Bush, K. A. 442
Connor, W. S. 442
Scheffé, H. 488
Walsh, J. E. 488
Williams, R. M. 488
Dalenius, T. 489
Cox, D. R. 570
Yamamoto, K. 610
Bose, R. C. 610
Roy, Purnendu
Mohon. 610
*Neyman, J. 664
Johnson, N. L. 667
Kishen, K.-
Rao, C. R. 715
Green, B. F. 715
Carlitz, L. 726
Geidel, H. 778
Thawani, V. D. 778
Nair, K. R. 836
*Cochran, W. G. 887
Mahalanobis, P. C. 888
Torgerson, W. S. 889
Wang, Chuch-ming. 890
Ottestad, P. 890
Kuiper, N. H. 998
Nair, K. R. 998

Biometrics, demography. Cf. Actuarial mathematics (analysis of mortality); biological problems.

Armitage, P. 393
Kendall, D. G. 394
Malécot, G. 394
*Li, Ching Chun. 780

Time series. Cf. Numerical methods (practical harmonic analysis).

Grenander, U.-
Rosenblatt, M. 61
Das, A. C. 66
Sastry, A. S. R. 66
Kendall, M. G. 66
Whittle, P. 191
Matthai, A.-
Kannan, M. B. 391
Rao, S. Raja-
Som, Ranjan K. 391
Rao, C.
Radhakrishna. 391
Whittle, P. 488, 666
Preston, G. W. 667
Chandler, K. N. 778
Hartley, H. O. 778
Whittle, P. 890
Dvoretzky, A.-
Kiefer, J.-
Wolfowitz, J. 997
Nagabhushanam, K. 998
Bochner, S. 1101
Cox, D. R.-
Smith, W. L. 1105
Middleton, D. 1105

Applications. Cf. Actuarial mathematics; astronomy (cosmology); biological problems; economics.

Solodovnikov, V. V. 388
Malatesta, S. 489
Sundström, M. 570
Rios, S. 667
Albert, G. E.-
Nelson, L. 775
Smith, N. M., Jr.-
Walters, S. S.-
Brooks, F. C.-
Blackwell, D. H. 778
Breny, H. 778, 890
Reich, E.-
Swerling, P. 890
Bubb, F. W. 891
Ambarzumjan, W. A. 912
Middleton, D. 1105
Goodman, L. A. 1105

STELLAR STATISTICS. See: astronomy (cosmology).

STELLAR STRUCTURE. See: astronomy.

STOCHASTIC PROCESSES. See: probability (Markov chains).

STRUCTURES. See: elasticity (structural dynamics); mechanics (statics).

STRUCTURES. See: partially ordered sets.

SUBHARMONIC FUNCTIONS. See: harmonic functions (subharmonic functions); potential theory.

SUMMABILITY. See: Fourier integrals (summability); Fourier series (convergence); series (convergence); Tauberian theorems.

SUMMATION FORMULAS. See: differences (summation formulas); Fourier integrals; integral transforms (inversion formulas); numerical methods; series (asymptotic series).

SYMBOLIC DYNAMICS.

Reeb, G. 170
Salenius, T. 769
Grabar', M. I. 981

SYMBOLIC NOTATIONS. See: logic (formal).

SYMMETRIC FUNCTIONS. See: algebra: equations (symmetric functions).

SYNTHETIC GEOMETRY. See: geometry (elementary; projective).

TABLES.

Blanch, G.-
Yowell, E. C. 691

Number-theoretical tables.

Gloden, A. 19
Palamà, G. 19, 137
*Fröberg, C.-E. 410
Gupta, Hansraj. 450
Singh, Daljit. 727
Palamà, G.-
Poletti, L. 846
Nanda, V. S. 1062
Goldberg, K. 1062
Parrish, W.-
Eckstein, M. G.-
Irwin, B. W. 1125

Logarithmic and trigonometric tables.

Tables of logarithms, etc. 587
*Thompson, A. J. 798
*Yano, T. 798
*Table of Arctan x. 905
Parrish, W.-
Irwin, B. W. 1125
Stevens, W. L. 1126
Uhler, H. S. 1126

Special functions.

Salzer, H. E.-
Zucker, R.-
Capuano, R. 90
Abramowitz, M. 90
van Wijngaarden, A. 90
Šumyagskiĭ, B. M. 91
Hartley, H. O. 91
Crank, J. 173
*Tables of Bessel functions. 321
Siegel, K. M.-
Crispin, J. W.-
Kleinman, R. E.-
Hunter, H. E. 321
Hammersley, J. M. 321
*Bickley, W. G.-
Comrie, L. J.-
Miller, J. C. P.-
Sadler, D. H.-
Thompson, A. J. 410
Tables for beta spectra. 411
Falkner, V. M. 411
*Jones, C. W. 500
Barfield, W. D.-
Broyles, A. A. 500
*Tables for compressible airflow. 510
Brouwer, W. B.-
Lassen, R. H. 587
Domb, C. 691
Lacey, L. J. 703
Mower, L. 799
Ishiguro, E.-
Hijikata, K.-
Arai, T.-
Mizushima, M. 799
Ishiguro, E.-
Arai, T.-
Mizushima, M. 799
*Tables of Bessel-Clifford functions. 905
Struve function. 905
Cherry, T. M. 905
Keller, G.-
Fenwick, M. 905
Tables of downwash. 905
Mayot, M. 906
Hammersley, J. M. 1018
Luke, Y. L.-
Ufford, D. 1018
Parrish, W.-
Ekstein, M. G.-
Irwin, B. W. 1125
Tikson, M. 1125
Chandrasekhar, S.-
Elbert, D. 1126
Turing, A. M. 1126
Herrick, S. 1131

Statistical tables.

Hartley, H. O.-
Fitch, E. R. 63
Massey, F. J., Jr. 63
*Hald, A. 188
Table for Wilcoxon's test. 189
King, E. P. 297
*Laadi, H.-
Boivie, O. 389
Birnbaum, Z. W. 389
Mainland, D.-
Murray, I. M. 389
Masuyama, M. 487
David, H. A. 568
Nabeya, S. 569
Pillai, K. C. S. 569
Gumbel, E. J.-
Greenwood, J. A.-
Durand, D. 664
Taguti, G. 775
*Smith, E. S. 887
Davidoff, M. D.-
Goheen, H. W. 995
Bailey, N. T. J. 1101
Tanner, J. C. 1102
Latscha, R. 1104
Normal probability functions. 1125
Stevens, W. L. 1126

TAUBERIAN THEOREMS.

Auluck, F. C.-Haselgrove, C. B. 138
Karadžić, L. 158
Agnew, R. P. 160
Rajagopal, C. T. 160
Knopp, K. 160
Erdős, P. 265
Rajagopal, C. T. 265
Wielandt, H. 265
Freud, G. 361
Agnew, R. P. 463, 464
Evans, A. 551
Delange, H. 634
Balagangadharan, K. 636
Meyer-König, W. 865
Korenblyum, B. I. 866
Agmon, S. 869
Freud, G. 958
Rajagopal, C. T. 958
de Bruijn, N. G.-Erdős, P. 973
Chiszetti, A. 977
Obrechkoff, N. 1068
*Chandrasekharan, K.-Minakshisundaram, S. 1077

TENSORS. See: differential geometry; vector calculus.

TESTS. See: statistics (theory of estimation).

TETRAHEDRA, GEOMETRY OF. See: geometry (triangles).

THERMODYNAMICS. Cf. Statistical mechanics.

Callen, H. B.-Greene, R. F. 230
Surinov, Yu. A. 230
Bergmann, P. G. 231
Mazur, P. 438
Grad, H. 520, 521
Tolhoek, H. A.-de Groot, S. R. 710
Miller, A. R. 710
Scheidegger, A. E.-McKay, C. D. 710
Krotkov, R. V.-Scheidegger, A. E. 710
Fényes, I. 1047
Popoff, K. 1047
San Juan, R. 1047
Pham, Man Quan. 1134, 1135

THETA FUNCTIONS. See: elliptic functions (theta functions).

THREE BODY PROBLEM. See: astronomy (three body problem).

TIDES. See: geophysics (hydrology, oceanography).

TIME SERIES. See: statistics (time series).

TOPOLOGY. Cf. Algebra: abstract (topological); continuous geometry; functional analysis; groups (continuous); measure (area); sets.

Johannson, I. 371
*Kuratowski, C. 892, 1000
*Bourbaki, N. 1106

Elementary topology.

Hopf, H. 678

Topological spaces.

Sierpiński, W. 68
Inagaki, T. 68
Shirota, T. 68
Morita, K. 68, 69
Suzuki, J. 69
Jaffard, P. 69
Dixmier, J. 69
Smirnov, Yu. M. 70
Vulih, B. Z. 70
Kuratowski, C. 70
Miyazaki, H. 70
Bourgin, D. G. 70
Łoś, J.-Ryll-Nardzewski, C. 70
Edwards, R. E. 183
Taĭmanov, A. D. 191
Arens, R. 191
Moise, E. E. 303
Misonou, Y.-Takeda, Z. 303
Mamuzić, Z. 303
Proskuryakov, I. V. 303
Smirnov, Yu. M. 303
Aleksandrov, P. 303
Smirnov, Yu. M. 303
Katětov, M. 304
Tong, Hing. 304
*Sierpiński, W. 394
Talmanov, A. D. 395
Shirota, T. 395
Roberts, G. T. 395
Dowker, C. H. 396
Hanner, O. 396
Hashimoto, H. 396
Inagaki, T.-Sugawara, M. 489
Terasaka, H. 489
Stone, A. H. 489
Infantozzi, C. A. 571
Morita, K. 571
Padmavally, K. 571
Sugawara, M. 571
Iwamura, T. 571
Hönig, C. S. 669
Shirota, T. 669
Fan, Ky.-Gottesman, N. 669
Whyburn, G. T. 669
Yoneda, N. 674
Orihara, M.-Tsuji, K. 734
Arelškin, G. Ya. 782
Smirnov, Yu. M. 782
Taĭmanov, A. D. 782
Šneider, V. E. 782
Gomes, A. P. 892
Nagata, J. 892
Koniski, I. 892
Smirnov, Yu. M. 893
Watson, P. D. 893
Koutský, K. 1001
Myškis, A. D. 1001
Papič, P. 1001
Coelho, R. P. 1001
Isbell, J. R. 1001
Inagaki, T. 1001
Kaplan, S. 1002
Vilenkin, N. Ya. 1002
Papić, P. 1106
Colmez, J. 1106
Efremovič, V. A. 1106
Smirnov, Yu. M. 1107
Dickinson, A. 1107
Mazur, S. 1107
Henriksen, M.-Isbell, J. R. 1107
Horn, A. 1107
Arens, R. 1108
Sikorski, R. 1108
Wallace, A. D. 1108
Grzegorczyk, A.-Kuratowski, C. 1108

Metric spaces.

Kakutani, S. 149
Ellis, D. 191
Hanner, O. 396
Behrend, F. A. 544
Sugawara, M. 571
Bing, R. H. 669
Freudenthal, H. 893
Gutiérrez Novoa, L. 1002
*Blumenthal, L. M. 1009

Complexes, polyhedra.

Bourgin, D. G. 70
Bott, R. 74
Dugundji, J. 74
*Pontryagin, L. S. 194
Ylitch-Dalovitch, M. 306
Zydler, J.-P. 309
Hadwiger, H. 309
Zykov, A. A. 493
Bourgin, D. G. 495
Bundgaard, S. 572
Lietzmann, W. 575
Eilenberg, S.-Zilber, J. A. 670
Séminaire E. N. S., 48–49. 670
Harrold, O. G., Jr.-Moise, E. E. 784
Borovikov, V. 784
Zimmermann, W. 893
Miyazaki, H. 894
van der Vaart, H. R. 1007
Bilinski, S. 1007

TOPOLOGY. (Continued)

Algebraic topology.

Cockcroft, W. H. 397
*Eilenberg, S.-Steenrod, N. 398
Hochschild, G.-Serre, J.-P. 619
Borevič, Z. I. 619
Eilenberg, S.-MacLane, S. 670
Eilenberg, S.-Zilber, J. A. 670
Séminaire E. N. S., 48–49. 670
Séminaire E. N. S., 50–51. 670
Massey, W. S. 672

Homology theory, fibre bundles.

Liao, S. D. 73
Larguier, E. 73
Hawley, N. S. 73
Gugenheim, V. K. A. M. 74
Radó, T. 74
Wada, H. 74
*Pontryagin, L. S. 194
Adem, J. 306
Boltyanskiĭ, V. 307
Weil, A. 307
Ellis, D. 307
Miščenko, E. F. 397
Pontryagin, L. S. 397
Rozenknop, I. Z. 397
*Eilenberg, S.-Steenrod, N. 398
Hu, Sze-tsen. 449
Borel, A. 490
Thom, R. 491
Wu, Wen-tsün. 491
Thom, R. 492
Deheuvels, R. 492
Guggenheimer, H. 498
Cogošvili, G. S. 573
Hu, Sze-Tsen. 573
Miščenko, E. F. 670
Eilenberg, S.-MacLane, S. 670
*Séminaire E. N. S., 48–49. 670
Séminaire E. N. S., 50–51. 670
Massey, W. S. 672
Dolbeault, P. 673
Miller, C. E. 673
Kundert, E. G. 682
Blanchard, A. 690
Radó, T. 784
Fáry, I. 784
van Est, W. T. 894
Wada, H. 894
Clark, C. E. 895
Jongmans, F. 904
Hirsch, G. 1004
Thom, R. 1004, 1005
Steenrod, N. E. 1005, 1006
Dolbeault, P. 1006
Kudo, T. 1111
Fáry, I. 1112
Thom, R. 1112
Hu, Szu-tsen. 1112
Wu, Wen-Tsun. 1112

Homotopy theory.

Jackson, J. R. 73
Uehara, H. 73
Miyazaki, H. 73
Bott, R. 74
Hu, Sze-Tsen. 194
Rohlin, V. A. 306
Hilton, P. J. 306
Sugawara, M. 397
Cockcroft, W. H. 397
Bundgaard, S. 572
Toda, H. 572
Frenkel, J. 573
Séminaire E. N. S., 48–49. 670
Massey, W. S. 672
Aoki, K. 673
Shimada, N. 673
Uehara, H. 674
Wada, H. 894
Olum, P. 895
James, I. M. 1110
Whitehead, G. W. 1110
Serre, J.-P. 1110
Nakaoka, M. 1111
Massey, W. S. 1111
Kudo, T. 1111
Thom, R. 1112

Covering surfaces. Cf. Elliptic functions (modular groups); functions of complex variables (Riemann surfaces).

Ganea, T. 193
Weil, A. 307
Salenius, T. 769

Manifolds.

Moise, E. E. 72
Borsuk, K. 72
White, P. A. 72
Rohlin, V. A. 72
Boltyanskiĭ, V. 74
Rohlin, V. A. 306
*Hodge, W. V. D. 500
Rohlin, V. A. 573
Reeb, G. 584
Dolbeault, P. 673
Fáry, I. 784
Dolbeault, P. 797
White, P. A. 1003
Moise, E. E. 1003
Dedecker, P. 1004
Thom, R. 1005
Dolbeault, P. 1006
Stoilow, S. 1109
Noguchi, H. 1110
Thom, R. 1112
Wu, Wen-Tsun. 1112
Reeb, G. 1113

Transformations of sets.

Smirnov, Yu. M. 303

Fixed points and sets, special mapping problems.

Krein, M. G. 56
Anderson, R. D. 71
Keldyš, L. V. 71
Sikorski, R. 71
Wang, Hsien-Chung. 72
Forrester, A. 72
Krasnosel'skiĭ, M. A.-Kreĭn, S. G. 72
Whyburn, G. T. 192
Titus, C. J.-Young, G. S. 192
Kinoshita, S. 193
de Groot, J. 304
Floyd, E. E. 304
Anderson, R. D. 305
Whyburn, G. T. 305
Haupt, O. 305
Edrei, A. 305
Nagumo, M. 305
Taĭmanov, A. D. 395
Sugawara, M. 397
Sitnikov, K. A. 489
Georgiev, G. 490
Fan, Ky. 490
Block, H. D.-Cargal, B. 572
Fuller, F. B. 669
Brouwer, L. E. J. 783
Inaba, M. 882
Zimmermann, W. 893
Wada, H. 894
Homma, T.-Terasaka, H. 1003
Dowker, Y. N. 1003
Noguchi, H. 1003
Mazur, S. 1107
Arens, R. 1108
Sierpiński, W. 1108
Thimm, W. 1108
Deheuvels, R. 1109
Krasnosel'skiĭ, M. A. 1109
Fan, Ky. 1109
Stoilow, S. 1109
Heller, A. 1110

Dimension theory.

Eggleston, H. G. 23
Sikorski, R. 70
Wagner, K. 191
Proskuryakov, I. V. 303
McCandless, B. H. 396
Sedmak, V. 783
Plans, A. 893
Morita, K. 893
Sitnikov, K. 894
Volkmann, B. 1070
Katětov, M. 1108

Topology of point sets, curves and continua.

Estill, M. E. 71
Jones, F. B. 71
Borsuk, K. 71
Gindler, M. 72
Nöbeling, G. 192
Bing, R. H. 192
Noguchi, H. 193
Ganea, T. 193
Cesari, L. 292
Cassina, U. 304
*Sierpiński, W. 394
Estill, M. E. 396
Moise, E. E. 396
Miščenko, E. F. 397
Bourgin, D. G. 489
White, P. A. 490
Ball, B. J. 572
Koseki, K. 572
Šneider, V. E. 782
Moore, R. L. 783
Anderson, R. D. 783
Hamstrom, M.-E. 783
Bing, R. H. 783
Kapuano, I. 784
Keller, O.-H. 784
Watson, P. D. 893
Freudenthal, H. 893
Burgess, C. E. 894
Cassina, U. 1002
Curtis, M. L. 1002
Bott, R. 1003
Ganea, T. 1003
Kapuano, I. 1003
Kuratowski, C.-Zarankiewicz, C. 1109
Reifenberg, E. R. 1109
Hamstrom, M.-E. 1109
Deheuvels, R. 1109

TOPOLOGY. (Continued)

Knots.

Chen, Kuo-Tsai. 193 Puppe, S. D. 490 Torres, G. 574

Graphs, four-color theorem and related topics.

Tutte, W. T. 67 Watanabe, S.- 571
Cantoni, R. 67, 68 Oyama, K. 306 Neville, E. H. 1000
Bäbler, F. 68 Dirac, G. A. 394 Harary, F.-
Goldberg, M. 197 Dynkin, E. B.- Norman, R. Z. 1113
Uspenskiĭ, V. A. 455

Applications to analysis. Cf. Calculus of variations (topological problems); functional analysis (existence theorems).

Ciliberto, C. 51 Rothe, E. H. 185 Gerstenhaber, M. 970
Reeb, G. 170 de Schwarz, M. J. 783

TORSION. See: elasticity (torsion).

TRANSCENDENCY PROBLEMS. See: Diophantine approximations (transcendency problems).

TRANSFINITE DIAMETER. See: polynomials (polynomial approximations); potential theory (capacity constants).

TRANSFINITE NUMBERS. See: sets (transfinite numbers).

TRIANGLES. See: geometry (triangles).

TRIGONOMETRIC INTERPOLATION. See: Fourier series (trigonometric interpolation).

TRIGONOMETRIC POLYNOMIALS AND SERIES. See: Fourier series.

TRIGONOMETRY. Cf. Geodesy.

Müller, A. 194 Herzog, E. R. 785 Fenchel, W. 786
Ströher, W. 399 Laurenti, F. 785

TURBULENCE. See: hydrodynamics (turbulence); statistical mechanics.

UNIFORMIZATION. See: functions of complex variables (Riemann surfaces).

UNIVALENT FUNCTIONS. See: functions of complex variables.

UNIVERSAL ALGEBRA. See: algebra: abstract (universal algebra).

VALUATIONS. See: algebra: abstract (valuations).

VARIATIONAL PRINCIPLES. See: calculus of variations; differential equations; integral equations; numerical methods (differential equations).

VARIATIONS, CALCULUS OF. See: calculus of variations.

VECTOR AND TENSOR CALCULUS. Cf. Differential geometry; geometry (projective).

*Chattelus, L. 361

Vector and tensor analysis.

García, G. 90 Storchi, E. 208 Lotze, A. 583
Coburn, N. 105 Segre, B. 208 Castoldi, L. 583
Braun, L.- *Nielsen, J. 215 *Anđelić, T. P. 586
Reiner, M. 114 Fulton, C. M. 321 Pinl, M. 611
*Lotze, A. 145 Šilov, G. E. 374 Duff, G. F. D. 751
*Ryšavý, V. 145 Müller, C. 374 *Denis-Papin, M.-
Devidé, V. 145 Gröbner, W. 401 Kaufmann, A. 798
Backes, F. 146 Murnaghan, F. D. 533 Pastori, M. 904
Sorace, O. 205 Schouten, J. A.- *Spain, B. 1017
De Sloovere, H. 205 van der Kulk, W. 583 Krettner, J. 1035

Tensors, spinors and related topics. Cf. Quantum mechanics; relativity.

De Sloovere, H. 84 Hodge, W. V. D. 500 Bochner, S.-
Yano, K. 88 Fumi, F. G. 500 Yano, K. 904
Bochner, S. 90 Gurevič, G. B. 586 Craig, H. V.-
Gel'man, E. E. 97 Craig, H. V. 689 Townsend, B. B. 1016
Proca, A. 118 Kawaguchi, M., Jr. 690 Groenewold, H. J. 1125
Perrin, F. 409 Sasayama, H. 690 Kilmister, C. W. 1125
Milner, S. R. 410 Rozenfel'd, B. A. 797

VIBRATIONS. See: differential equations; elasticity (wave propagation); electricity; hydrodynamics (wave propagation); mechanics (oscillations); numerical methods (differential equations; practical harmonic analysis).

VISCOUS FLUIDS. See: hydrodynamics (viscous fluids).

WARING PROBLEM. See: number theory (Waring problem).

WAVE MECHANICS. See: quantum mechanics.

WAVES. See: acoustics; differential equations; elasticity (wave propagation); electricity (waves); geophysics, hydrodynamics (wave propagation); numerical methods (differential equations).

WEBS, GEOMETRY OF. See: differential geometry (families of curves).

WHITTAKER FUNCTIONS. See: special functions (Bessel functions).

ZEROS. See: algebra: equations (zeros); functions of complex variables (zeros); numerical methods (equations); polynomials (zeros); special functions.

ZETA FUNCTIONS. See: Dirichlet series (zeta functions); number theory.

ABBREVIATIONS OF NAMES OF JOURNALS: ADDENDA

This list supplements that given in volume 13, pp. 1128–1137. It gives the form of reference used in MATHEMATICAL REVIEWS and the complete title (when it differs from this form); the place of publication and other pertinent information are given in parentheses when desirable for clarity. Scripts other than Roman, Cyrillic and Greek are disregarded unless no title in one of these three appears.

Abh. Deutsch. Akad. Wiss. Berlin. Kl. Tech. Wiss. Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für technische Wissenschaften. (Berlin.)

Acta Philos. Fennica. Acta Philosophica Fennica. (Helsinki.)

Acta Sci. Sinica. Acta Scientia Sinica. (Peking.)

Akad. Nauk Uzbek. SSR. Trudy Inst. Mat. Meh. Akademiya Nauk Uzbekskoĭ SSR. Trudy Instituta Matematiki i Mehaniki.

An. Real Soc. Españ. Fis. Quim. Ser. A. Fis. Anales de la Real Sociedad Española de Fisica y Quimica. Serie A—Fisica. (Madrid.)

Annual Rep. Sci. Works Fac. Sci. Osaka Univ. Annual Report of Scientific Works from the Faculty of Science. Osaka University.

Australian J. Physics. Australian Journal of Physics. (Melbourne.)

Bol. Fis. Univ. Brasil. Faculdade Nacional de Filosofia. Universidade do Brasil. Boletim de Fisica. (Rio de Janeiro.)

Bŭlgar. Akad. Nauk. Izvestiya Mat. Inst. Bŭlgarska Akademiya na Naukite. Otdelenie za Fiziko-Matematičeski i Tehničeski Nauki. Izvestiya na Matematičeskiya Institut. (Sofia.)

Bull. Acad. Polon. Sci. Cl. III. Bulletin de l'Académie Polonaise des Sciences. Classe Troisième. (Warsaw. Formerly: *Bull. Int. Acad. Polon. Sci. Lett. Cl. Sci. Math. Nat. Sér. A. Sci. Math.*)

Bull. Soc. Sci. Lett. Poznań. Ser. B. Sci. Math. Nat. Bulletin de la Société des Amis des Sciences et des Lettres de Poznań. Serie B. Sciences Mathématiques et Naturelles. (Poznań.)

Bull. Trimest. Inst. Actuaires Français. Bulletin Trimestriel de l'Institut des Actuaires Français. (Paris.)

Comment. Math. Univ. St. Paul. Commentarii Mathematici Universitatis Sancti Pauli. Rikkyô Daigaku Sûgaku Zassi. (Tôkyô.)

Doklady Akad. Nauk UzSSR. Doklady Akademii Nauk UzSSR. UzSSR Fanlar Akademiyasining Dokladlari. (Tashkent.)

Gaz. Mat. Fiz. Societatea de Ştiinţe Matematice şi Fizice din R.P.R. Gazeta Matematică şi Fizică. Revistă pentru Studiul şi Răspândirea Ştiinţelor Matematice şi Fizice. (Bucarest.)

Indiana Univ. Publ. Sci. Ser. Indiana University Publications. Science Series. (Bloomington, Ind.)

Izvestiya Bŭlgar. Akad. Nauk Otd. Fiz.-Mat. Tehn. Nauk. Ser. Fiz. Izvestiya na Bŭlgarskata Akademiya na Naukite. Otdelenie za Fiziko-Matematičeski i Tehničeski Nauki. Seriya Fizičeska. (Sofia.)

J. Fac. Engrg. Univ. Tokyo. Journal of the Faculty of Engineering. University of Tokyo.

J. Gakugei Coll., Tokushima Univ. (Nat. Sci.). Journal of the Gakugei College, Tokushima University (Natural Science). (Tokushima. Title varies.)

J. Inst. Polytech. Osaka City Univ. Ser. B. Physics. Journal of the Institute of Polytechnics. Osaka City University. Series B. Physics.

J. Math. Tokyo. Journal of Mathematics. (Metropolitan Institute for Mathematics, Tokyo.)

J. Mech. Phys. Solids. Journal of the Mechanics and Physics of Solids. (London.)

J. Soc. Indust. Appl. Math. Journal of the Society for Industrial and Applied Mathematics. (Philadelphia.)

Kumamoto J. Sci. Ser. A. Kumamoto Journal of Science. Series A (Mathematics, Physics and Chemistry).

Magyar Tud. Akad. Alkalm. Mat. Int. Közl. A Magyar Tudományos Akadémia Alkalmazott Matematikai Intézetének Közleményei. (Budapest.)

Mat-Fiz. Sborník Slovensk. Akad. Vied Umení. Matematicko-Fizikálny Sborník Slovenskej Akadémie Vied a Umení. (Bratislava.)

Math. Scand. Mathematica Scandinavica. (Copenhagen.)

Meded. Kon. Vlaamse Acad. Wetensch. Lett. Schone Kunst. België. Kl. Wetensch. Mededelingen van de Koninklijke Vlaamse Academie voor Wetenschappen, Letteren en Schone Kunsten van België. Klasse der Wetenschappen. (Brussels.)

Mem. Lib. Arts Dept. Fukui Univ. Memoirs of the Liberal Arts Department, Fukui University.

New Zealand J. Sci. Tech. Sect. B. New Zealand Journal of Science and Technology. B. General Research Section. (Wellington.)

Nordisk Mat. Tidskr. Nordisk Matematisk Tidskrift. (Oslo.)

Nova Acta Leopoldina (N.F.) Nova Acta Leopoldina. Abhandlungen der deutschen Akademie der Naturforscher (Leopoldina) zu Halle/Saale. Neue Folge. (Leipzig.)

Ohio J. Sci. The Ohio Journal of Science. (Columbus, Ohio.)

Proc. Fac. Eng. Keio Univ. Proceedings of the Fujihara Memorial Faculty of Engineering Keio University. (Tokyo. Formerly: Keiogijuku Univ.)

Publ. Inst. Statist. Univ. Paris. Publications de l'Institut de Statistique de l'Université de Paris.

Rev. Mat. Fiz. Societatea de Ştiinţe Matematice şi Fizice din R.P.R. Revista Matematică şi Fizică. (Bucarest.)

Revista Mat. Elem. Revista de Matemáticas Elementales. (Bogota.)

Sci. Papers Fac. Eng. Tokushima Univ. Scientific Papers of Faculty of Engineering, Tokushima University.

Sci. Rep. Saitama Univ. Ser. A. The Science Reports of the Saitama University. Series A. (Urawa.)

Sudhoffs Archiv. Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften. (Wiesbaden.)

Univ. Bergen Årbok. Naturvit. Rekke. Universitet i Bergen Årbok. Naturvitenskapelig Rekke.

Univ. Buenos Aires. Rev. Fac. Ci. Econ. Universidad de Buenos Aires. Revista de la Facultad de Ciencias Economicas.

Univ. Lisboa. Revista Fac. Ci. B. (2). Universidade de Lisboa. Revista da Faculdade de Ciencias. 2.ª Série. B.

Univ. Nac. Eva Peron. Publ. Fac. Ci. Fisicomat. Serie Segunda. Revista. Universidad Nacional de Eva Peron. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Segunda. Revista (or Contribuciones). (Formerly: Univ. Nac. La Plata.)

Wissensch. Z. Humboldt-Univ. Berlin. Math.-Nat. Reihe. Wissenschaftliche Zeitschrift der Humboldt-Universität Berlin. Mathematisch-Naturwissenschaftliche Reihe.

Wissensch. Z. Martin-Luther-Univ. Halle-Wittenberg. Math.-Nat. Reihe. Wissenschaftliche Zeitschrift der Martin-Luther-Universität Halle-Wittenberg. Mathematisch-Naturwissenschaftliche Reihe.

Wissensch. Z. Univ. Greifswald. Math.-Nat. Reihe. Wissenschaftliche Zeitschrift der Universität Greifswald. Mathematisch-Naturwissenschaftliche Reihe.

Yokohama Math. J. Yokohama Mathematical Journal.

Zastosowania Mat. Instytut Matematyczny Polskiej Akademii Nauk. Zastosowania Matematyki. (Warsaw.)

ERRATA AND ADDENDA

VOLUME 5

P. 198: **Wallace.**
In the title read 278 instead of 578.

VOLUME 8

P. 562: **Souprounenko.**
In lines 4 and 5 on p. 563 replace "of degree" by "each of order."

VOLUME 9

P. 491: **Prachar.**
The author has pointed out the following to the reviewer: "Zu einer Rezension [Math. Reviews **9**, 491 und **10**, 855] welche eine Arbeit von mir betrifft, möchte ich bemerken, dass die Resultate dieser Arbeit noch viel früher als von Mann und mir, im wesentlichen von A. Suschkewitsch [Math. Ann. **99**, 30–50 (1928)] angegeben worden sind."
S. A. Jennings.

VOLUME 10

P. 29: **Bernšteĭn.**
In the title read "real" instead of "complex."
P. 62: **Metelka.**
In the title read "1946, no. 14" for "1946."

VOLUME 12

P. 676: **Knödel** (2d paper).
In line 5 of the review read $y_i<2k \log x$ for $y_i<2 \log x$.
P. 750: **Todd.**
The displayed formula at the bottom of the left-hand column should read $\tan^{-1} 2+\tan^{-1} 3-3 \tan^{-1} 1=0$.
P. 931: Levin, B. Y.
This entry should read as follows:
Levin, B. Ya.
Quasi-analytic classes of almost periodic functions. 22
Levin, B. Yu. See Gurevič, L. Ê.

VOLUME 13

P. 140: **Kawata and Udagawa.**
In the title read "1, no. 1" for "1."
P. 140: **Homma.**
In the title read "1, no. 1" for "1."
P. 141: **Masuyama and Kuroiwa.**
In the title read "1, no. 1" for "1."
P. 142: **Kawata.**
In the title read "1, no. 1" for "1."
P. 283: **Masuyama.**
In the title read "1, no. 1" for "1."
P. 569: **Kunisawa, Makabe, and Morimura.**
In the title read "1, no. 2" for "1."
P. 569: **Taguti.**
In the title read "1, no. 2" for "1."
P. 576: **Devidé.**
The necessary qualifiers which the last sentence of the review calls for regarding the spheres to which the given formula applies were, by mistake, omitted from the German summary and are to be found in the Croatian text of the paper.
N. A. Court.
P. 624: **Matsushita.**
The part of the first sentence on line 3 of the review should read as follows: si, pour tout t, $tPt^{-1} \subset P$, P est dit normal.
P. 656: **Yosida.**
In line 7 of the review read $m^{1/2}2^{-1/2}$ for $m^{1/2}s^{-1/2}$.
P. 661: **Routledge.**
In line 8 from the end of the review read s for S.
P. 866: **Derwidué** (2d paper).
In the title read "no. 5, 52 pp." for "5–52."
P. 901: **Petresco.**
In the first displayed line read B_j for B_i.
P. 932: **San Juan.**
The result quoted in the review is equivalent to one given by the author [Mem. Real Acad. Ci. Madrid. Ser. Ci. Exact. **2** (1942), p. 12; these Rev. **14**, 543] and so antedates the (independent) cited work of Bang.
R. P. Boas, Jr.
P. 961: **Masuyama.**
In the title read "1, no. 2" for "1."
P. 1069: Left-hand column.
The following entry should be made between Ogilvy and Ōhasi.
Oguchi, T.
Three-dimensional ferromagnet. I. 196
P. 1138: Left-hand column.
The entry "P. 472: **Klíma**" should read "P. 471: **Klíma.**"

VOLUME 14

P. 13: **Szép and Rédei.**
In line 8 of the review read $k'h'$ for $h'k'$.
P. 52: **Kiro.**
In the title read $\dfrac{\partial^2 u}{\partial x_1 \partial x_2}$ for $\dfrac{\partial^2}{\partial x_1 \partial x_2}$.
P. 55: **Albrycht.**
In line 1 of the review read $a<t \leqq b$ for $a<x \leqq b$ and in lines 2 and 4 read $a<t<b$ for $a<x<b$.
P. 64: **Homma.**
In the title read "1, no. 2" for "1."
P. 79: **Gaeta.**
In the last line of the review read "Zariski" for "Tarski."
P. 131: **Gericke.**
In his review of this paper the reviewer stated that in two places the author appeared to make a certain assumption without justification. The reviewer has now received a letter from the author which makes it clear that the difficulty is one of distinguishing between what is being assumed and what is to be proved. The author admits that his original wording conveys the impression recorded by the reviewer and shows how, by a slight change of wording, this can be avoided in both places, thus justifying his conclusions.
R. A. Rankin.
P. 137: **Turán.**
In lines 9 and 10 from the end of the review read "Trav. Inst. Math. Stekloff **23** (1947)" instead of "Foundations of the theory of numbers, 5th ed., Moscow-Leningrad, 1949."
P. 146: **Ellis.**
In line 1 of the review read 2^S for both 2^s and 2^3. In line 8 read $\varphi\{a, p\}$ for $\varphi\{a, b\}$.
P. 149: **Silverman.**
In line 1 of the review read "continuous monotone transformation" for "continuous transformation."
P. 170: **Sestini.**
Delete the last sentence of the review, which contains an erroneous criticism of the author's paper.
G. E. H. Reuter.

P. 201: **Andreotti.**
In line 7 from the end of the review read $6q3^q(I+4)$ instead of $6q3^q(I+4)$.

P. 221: **Adkins and Rivlin.**
In line 17 of the review insert the word "theory" after "'membrane'."

P. 260: **Potugina.**
In line 2 of the review read "$k=1, 2, \cdots$" instead of "$n=3, 5, \cdots$."

P. 271: **Reissner.**
The author pointed out to the reviewer that the review is in error. In fact, the function $F(\theta^2)$ may be expanded in descending powers of θ^2 for sufficiently large values of θ^2 (and not for $\theta^2>\delta^2$ as stated in the review), and the whole point of the paper is to show that this expansion may be used for expanding f_1 in ascending powers of a_0. *A. Erdélyi.*

P. 291: **De Giorgi.**
In the title read "19, 29–41 (1952)" for "19."

P. 299: **Kiefer and Wolfowitz.**
It has been called to the attention of the reviewer that the review was misleading as to the problem treated by the authors and the results obtained. The following review is intended to replace the original.

Let $H(y|x)$ be a family of distribution functions which depend on a parameter x and let $M(x)=\int_{-\infty}^{\infty} y dH(y|x)$, where $\int_{-\infty}^{\infty}(y-M(x))^2 dH(y|x)<\infty$ and $M(x)$ is strictly increasing for $x<\theta$ and strictly decreasing for $x>\theta$, where the maximum point θ is unknown. The stochastic approximation method used by the authors for estimating θ is the following: Let $z_{n+1}=z_n+a_n(y_{2n}-y_{2n-1})/c_n$, where y_{2n-1} and y_{2n} are independent chance variables distributed according to $H(y|z_n-c_n)$ and $H(y|z_n+c_n)$ for all positive integral n and $\{a_n\}$ and $\{c_n\}$ are infinite sequences of positive numbers such that $c_n\to 0$, $\sum a_n=\infty$, $\sum a_n c_n<\infty$, $\sum a_n^2 c_n^{-2}<\infty$. It is proved that, under certain regularity conditions, z_n converges stochastically to θ as $n\to\infty$. *R. P. Peterson.*

P. 304: **de Groot.**
The reviewer has misstated the definition of weak realization. In the definition given in the review, "$^*M$ is dense in M," should be deleted from line 8. *E. E. Floyd.*

P. 347: **Rieger** (2d paper).
In line 1 of the review read "a free $\aleph_\xi$ complete Boolean algebra $A_m{}^{\aleph_\xi}$" for "an $\aleph_\xi$ complete Boolean algebra A_m". In line 2 read $A_m{}^{\aleph_\eta}$ for A_m.

P. 385: **Rickart.**
In line 2 of the review read "irreducible" instead of "indecomposable."

P. 396: **Hanner.**
In lines 22 and 23 of the review read G_δ for G.

P. 400: **Pogorelov.**
In line 4 from the top of p. 401 read "class of all closed convex surfaces" for "class of a convex surface."

P. 414: **King.**
In line 6 of the review read "walks" for "values."

P. 426: **Kemp.**
As originally stated by the author, the parameter μ can be an arbitrary complex number. The reviewer's statement that it must be restricted by the boundary conditions at infinity applies rather to the parameter ν, which, however, was suitably restricted by the author. *J. W. Miles.*

P. 469: **Chang, Chu, and O'Brien.**
In the title read $W_{k,m}(z)$ for $w_{k,m}(z)$.

P. 533: **Matsushima.**
In the title read $\mathfrak{F}_4$ for F.

P. 536: **Roth.**
In line 5 of the review read $o(x)$ for $\sigma(x)$.

P. 540: **Eichler** (2d review).
In the next to the last line read "Quadratische" "Quadrische."

P. 594: **Golubev.**
In the last line of the review read "ornithopter" for "ornithcopter."

P. 595: **Timman.**
In line 5 from the end of the review read 1951 for 1952.

P. 625: **Barjaktarević.**
The author's name was misprinted. It should read "**Bajraktarević.**"

P. 719: **Fuchs and Szele.**
Delete the parenthetical remark at the end of the first paragraph of the review. This was an error on the part of the reviewer. *M. Henriksen.*

P. 726: **Moser.**
In line 4 of the review read $o(n)$ for $\sigma(n)$.

P. 735: **Krickeberg.**
Replace the last sentence of the review by the following one "A typical result is that if every lower sum exists, then the lower integral (the supremum of all lower sums) on a variable set is a countably additive function of that set." *P. R. Halmos.*

P. 736: **Walsh.**
In a letter to the reviewer the author points out that some of the theorems in his paper (in particular result (2) quoted in the review) were proved earlier by C. Pucci [Boll. Un. Mat. Ital. (3) **4**, 270–274 (1949); **5**, 20–23 (1950); these Rev. **11**, 428, 648]. *U. S. Haslam-Jones.*

P. 771: **Krishna Iyer.**
In line 1 of the review insert "sums of" after the word "computing." *J. Kiefer.*

P. 790: **Chatelet.**
Insert 6 at the end of line 4 of the review.

P. 810: **Szebehely.**
In the title insert (1952) following 22 pp.

P. 843: **Szélpál.**
The reviewer of this paper was D. G. Higman, not Graham Higman.

P. 866: **Kadec.**
The word "new" should be deleted from the first line. This proof is essentially that of Steinitz [J. Reine Angew Math. **143**, 128–175 (1913)]. *M. M. Day.*

P. 884: **Šilov** (1st paper).
In the title read "sum" for "sums."

P. 915: **Taylor.**
In line 6 read $\partial D^{\mu\nu}/\partial x^\nu$ for $\partial D^{\mu\nu}/\partial \mathbf{x}^\nu$ and in line 7 read $D^{\mu\nu}$ for $D^{\mu\nu}$.

P. 920: **Parker.**
Omit the last sentence in the review. The original comment was prompted by a misunderstanding of notation. *C. C. Lin.*

P. 931: **Glaser.**
In lines 17 and 22 from the top of p. 932 read Bessel for Lommel.

P. 932: **Grümm.**
In line 7 of the review read Bessel for Lommel.

P. 953: **Takagi.**
In line 4 of the 2d column read "Math. Werke, Bd II, Birkhäuser, Basel, 1933" instead of "Kronecker, ibid."

P. 975: **Žak.**
The last line of the review should read as follows: "and V. Bononcini [Atti Sem. Mat. Fiz. Univ. Modena **5**, 154–164 (1951); these Rev. **14**, 750]."

P. 982: **Caligo.**
In the title read "299–314" for "322–337."

P. 997: **Dvoretzky, Kiefer, and Wolfowitz.**
The sentence beginning on line 6 of the review should begin: "The processes are assumed to be processes of stationary independent increments, . . ."

P. 1018: **Salzer.**
In line 17 of the review read z_k for z_k. In line 7 on p. 1019 read $3+i$ for $3-i$. In line 16, p. 1018 and line 2, p. 1019 read P for j (three times on each line).

P. 1020: **Woods.**
In the 1st line of the 2d paragraph read "principal" for "principle."

P. 1060: **Clowes and Hirsch.**
In the third line of the review, replace "and" by the phrase "below which lie arbitrary row-finite lower left hand corners and have." *F. Haimo.*

TRANSLITERATION OF RUSSIAN

The transliteration of Russian frequently causes confusion because of the variety of systems in use. The table below presents several systems presently used by libraries or by abstracting journals, including Mathematical Reviews, which are likely to be consulted by mathematicians. The system adopted by Mathematical Reviews has been in use since the beginning of volume 7. Other Slavic languages using a Cyrillic alphabet are transliterated by some modification of the Russian transliteration; Serbian is transliterated according to a standard procedure into the equivalent Croatian. If the author's name already appears transliterated in the paper, this transliteration is used by Mathematical Reviews.

Russian Letter Cap.	Ital.	Mathematical Reviews	Zentralblatt für Mathematik	Bulletin Analytique	Applied Mechanics Reviews	Science Abstracts	U. S. Library of Congress	Amer. Slavic & E. European Review
А	*а*	a	a	a	a	a	a	a
Б	*б*	b	b	b	b	b	b	b
В	*в*	v	v	v	v	v	v	v
Г	*г*	g	g	g	g	g	g	g
Д	*д*	d	d	d	d	d	d	d
Е	*е*	e	e	e	e	e	e	e
Ё	*ё*	ë	e	ë	ë	e	ë	ë
Ж	*ж*	ž	ž	zh	zh	zh	z͡h	ž
З	*з*	z	z	z	z	z	z	z
И	*и*	i	i	i	i	i	i	i
Й	*й*	ĭ	j	j	ĭ	ĭ	ĭ	j
К	*к*	k	k	k	k	k	k	k
Л	*л*	l	l	l	l	l	l	l
М	*м*	m	m	m	m	m	m	m
Н	*н*	n	n	n	n	n	n	n
О	*о*	o	o	o	o	o	o	o
П	*п*	p	p	p	p	p	p	p
Р	*р*	r	r	r	r	r	r	r
С	*с*	s	s	s	s	s	s	s
Т	*т*	t	t	t	t	t	t	t
У	*у*	u	u	u	u	u	u	u
Ф	*ф*	f	f	f	f	f	f	f
Х	*х*	h	ch	kh	kh	kh	k͡h	kh
Ц	*ц*	c	c	c	ts	ts	t͡s	c
Ч	*ч*	č	č	ch	ch	ch	c͡h	č
Ш	*ш*	š	š	sh	sh	sh	s͡h	š
Щ	*щ*	šč	šč	shch	shch	shch	shch	šč
Ъ	*ъ*	″			″	‘	″	‘
Ы	*ы*	y	y	y	ĭ	ȳ	y	y
Ь	*ь*	’	’	’	’	’	’	’
Э	*э*	è	ė	e	é	e	é	è
Ю	*ю*	yu	ju	ju	yu	yu	ĭu	ju
Я	*я*	ya	ja	ja	ya	ya	ĭa	ja

MATHEMATICAL SURVEYS

Mathematical Surveys is a series of monographs published by the American Mathematical Society to meet the need for careful expositions of fields of current research interest. Each Survey is designed to give an extended exposition of a significant topic of limited scope and to provide mathematicians who are not specialists in the topic with a rapid introduction to its recent developments and unsolved problems.

Six Surveys have been published and may be purchased from the Society at the prices listed below. Members of the Society are allowed a discount of 25% on Mathematical Surveys which they order directly from the Society. Prices are in United States dollars and include postage.

Vol. — *List Price*

1. J. A. Shohat and J. D. Tamarkin, The Problem of Moments. 1943, xiv, 140 p.; reprinted 1950, iv, 144 p. $3.35

The present monograph is the first treatment of this problem in book form. It is concerned largely with the classical moment problem and, with the exception of a few remarks concerning the trigonometrical moment problem, no mention is made of the various generalizations and modifications. A special chapter is devoted to the theory of approximate (mechanical) quadratures and its relation to the problem of moments. In view of the considerable mathematical, as well as practical, interest in the moment problem, this volume has been prepared with a view to the needs of a wide mathematical public.

In the second printing, revisions and corrections have been made in the text and a Supplementary Bibliography has been added.

2. N. Jacobson, The Theory of Rings, 1943, vi, 150 p.; reprinted 1949, vi, 151 p. $3.35

"This very excellent treatment of the theory of rings is more than a compendium. For not only does if offer a résumé of the contents of this theory, but it gives at the same time a very instructive introduction into the working methods used here which will be helpful to others than the algebraists. Since the book is, apart from a very few exceptions, quite self-contained, not much previous knowledge is needed, although it seems desirable to be familiar with the ways of thinking practised in abstract algebra. Thus the book should not only be indispensable to every worker in the theory of rings, but may also be used in connection with an introductory course in abstract algebra."

From review by Reinhold Baer, Bull. Amer. Math. Soc., March 1946.

3. M. Marden, The Geometry of the Zeros of a Polynomial in a Complex Variable, 1949, x, 183 p. $5.00

This Survey is devoted to the study of polynomials as analytic functions of a complex variable. The point of view is largely geometric.

"The problems center very largely about the study of the zeros of a polynomial $f(z)$ as functions of various parameters. The parameters are usually the coefficients of $f(z)$, or the zeros or the coefficients of some related polynomial $g(z)$."

From the Preface.

4. O. F. G. Schilling, The Theory of Valuations, 1950, viii, 253 p. $6.00

"The present book concentrates on the general significance of valuation theory for the algebraic and arithmetic structure of fields, division rings, and simple algebras, including topics such as the local class field theory and non-commutative ideal theory. . . .

"It fully accomplishes its main purpose, namely to give a systematic account of the present status of valuation theory without dwelling on its applications to other fields. Indeed, a very considerable amount of recent research, a good deal of which is due to the author himself, is here collected in the short space of 250 pages."

From review by G. Hochschild, Bull. Amer. Math. Soc., January 1951.

5. S. Bergman, The Kernel Function and Conformal Mapping, 1950, viii, 160 p. $4.00

"Orthogonal functions and the kernel function have become fundamental tools of the modern theory of functions; they allow one to consider the single-valued regular functions which are of integrable square over a given region as the elements of a Hilbert space. . . .

". . . the book as a whole gives a distinguished introduction to the theory of orthogonal functions with its abundance of new results."

From review by H. Behnke, Bull. Amer. Math. Soc., January 1952.

6. C. Chevalley, Introduction to the Theory of Algebraic Functions of One Variable, 1951, xiii, 188 p. $4.00

This book develops the elementary part of the theory of algebraic functions of one variable. The treatment is strictly algebraic, little or no attention being paid to the geometric approach. The presentation is more general than the traditional one in that the constants of the fields of algebraic functions considered are not necessarily complex numbers, but elements of an arbitrary field. This generalization is shown to admit a number of important applications not covered by the classical case.

UNESCO BOOK COUPONS

Unesco Book Coupons may be sent directly to the Society in payment for its publications. A folder describing these coupons and listing the countries in which they are available may be obtained from the Society upon request.

AMERICAN MATHEMATICAL SOCIETY

80 Waterman Street
Providence 6, Rhode Island
United States of America

COLLOQUIUM PUBLICATIONS

OF THE

AMERICAN MATHEMATICAL SOCIETY

The Colloquium Publications of the American Mathematical Society form a series of clothbound volumes. Each deals with a topic of advanced mathematical research and embodies new contributions to its field.

The Colloquium Publications currently available are listed below. They may be purchased from the Society at the prices indicated. Members of the Society are allowed a discount of 25% on Colloquium Publications which they order directly from the Society.

Volume No.		List Price
3(2).	E. Kasner, *Differential-geometric Aspects of Dynamics*, 1913, iv, 117 p.; reprinted 1934, 1948	$2.50
5(2).	O. Veblen, *Analysis Situs*, 1922, viii, 150 p.; second ed., 1931, x, 194 p.; reprinted 1946, 1951	3.35
8.	L. P. Eisenhart, *Non-Riemannian Geometry*, 1927, viii, 184 p.; reprinted 1934, 1949	2.70
9.	G. D. Birkhoff, *Dynamical Systems*, 1927, viii, 295 p.; reprinted 1948, 1952	4.60
10.	A. B. Coble, *Algebraic Geometry and Theta Functions*, 1929, viii, 282 p.; reprinted 1948	4.00
11.	D. Jackson, *The Theory of Approximation*, 1930, viii, 178 p.; reprinted 1946, 1951	3.35
14.	J. F. Ritt, *Differential Equations from the Algebraic Standpoint*, 1932, x, 172 p.; reprinted 1948	3.00
15.	M. H. Stone, *Linear Transformations in Hilbert Space and Their Applications to Analysis*, 1932, viii, 622 p.; reprinted 1946, 1948, 1951	8.00
16.	G. A. Bliss, *Algebraic Functions*, 1933, x, 220 p.; reprinted 1948	3.75
17.	J. H. M. Wedderburn, *Lectures on Matrices*, 1934, viii, 200 p.; reprinted 1949, x, 205 p.	3.35
18.	M. Morse, *The Calculus of Variations in the Large*, 1934, x, 368 p.; reprinted 1948	5.35
19.	R. E. A. C. Paley and N. Wiener, *Fourier Transforms in the Complex Domain*, 1934, viii, 184 p. + portrait plate; reprinted 1949, 1954	4.00
20.	J. L. Walsh, *Interpolation and Approximation by Rational Functions in the Complex Domain*, 1935, x, 382 p.	$6.00
21.	J. M. Thomas, *Differential Systems*, 1937, x, 118 p.	2.00
22.	C. N. Moore, *Summable Series and Convergence Factors*, 1938, vi, 105 p.	2.00
24.	A. A. Albert, *Structure of Algebras*, 1939, xii, 210 p.; reprinted 1952	4.00
25.	G. Birkhoff, *Lattice Theory*, 1940, vi, 155 p.; enlarged and completely revised edition, 1949, xiv, 283 p.	6.00
26.	N. Levinson, *Gap and Density Theorems*, 1940, viii, 246 p.	4.00
28.	G. T. Whyburn, *Analytic Topology*, 1942, x, 278 p.; reprinted 1948, x, 280 p.	4.75
29.	A. Weil, *Foundations of Algebraic Geometry*, 1946, xx, 288 p.	5.50
30.	T. Radó, *Length and Area*, 1948, vi, 572 p.	6.75
31.	E. Hille, *Functional Analysis and Semi-groups*, 1948, xii, 528 p.	7.50
32.	R. L. Wilder, *Topology of Manifolds*, 1949, x, 402 p.	7.00
33.	J. F. Ritt, *Differential Algebra*, 1950, viii, 184 p.	4.40
34.	J. L. Walsh, *The Location of Critical Points of Analytic and Harmonic Functions*, 1950, viii, 384 p.	6.00
35.	A. C. Schaeffer and D. C. Spencer, *Coefficient Regions for Schlicht Functions*, with a chapter on *The Region of Values of the Derivative of a Schlicht Function* by Arthur Grad. 1950, xvi, 311 p.	6.00

UNESCO BOOK COUPONS

Unesco Book Coupons may be sent directly to the Society in payment for its publications. A folder describing these coupons and listing the countries in which they are available may be obtained from the Society upon request.

AMERICAN MATHEMATICAL SOCIETY

80 Waterman Street

Providence 6, Rhode Island

AMERICAN MATHEMATICAL SOCIETY

Founded 1888

Members of the organizations listed below, when residing outside the North American area, are entitled to membership in the American Mathematical Society with dues at one-half the regular rate (regular annual rate $14.00, reduced rate $7.00).

London Mathematical Society
Unione Matematica Italiana
Deutsche Mathematiker-Vereinigung
Norsk Matematisk Forening
Schweizerische Mathematische Gesellschaft
Société Mathématique de France
Dansk Matematisk Forening
Wiskundig Genootschap te Amsterdam
Polskie Towarzystwo Matematyczne
Svenska Matematikersamfundet
Suomen Matemaatinen Yhdistys
Íslenzka Stærðfræðafelagið
Indian Mathematical Society

Dues-paying members of the American Mathematical Society receive the Bulletin and the Proceedings of the Society gratis and are entitled to reduced rates in subscribing to the Transactions, Mathematical Reviews, and a number of other journals.

A Bulletin of Information as to the Aims and Privileges of the Society, a Catalog of Publications, and an application for membership form will be sent without obligation on request. Rates are quoted in United States dollars. Payments may be made with Unesco Book Coupons.

AMERICAN MATHEMATICAL SOCIETY
80 Waterman Street
Providence 6, Rhode Island
United States of America